

RE: J0724-4089

Lot 7 Magnolia Hills

Trenco

818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: J0724-4089

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

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.6

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

This package includes 36 individual, dated Truss Design Drawings and 5 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	167767572	A1	8/23/2024	21	167767592	P3	8/23/2024
2	167767573	A2	8/23/2024	22	167767593	XA1	8/23/2024
3	167767574	A3	8/23/2024	23	167767594	XB1	8/23/2024
4	167767575	A4	8/23/2024	24	167767595	XB2	8/23/2024
5	167767576	A5	8/23/2024	25	167767596	YA1	8/23/2024
6	167767577	A6	8/23/2024	26	167767597	YA2	8/23/2024
7	167767578	A7	8/23/2024	27	167767598	YA3	8/23/2024
8	167767579	A8	8/23/2024	28	167767599	YB1	8/23/2024
9	167767580	B1	8/23/2024	29	167767600	YB2	8/23/2024
10	167767581	B2	8/23/2024	30	167767601	YP1	8/23/2024
11	167767582	B3	8/23/2024	31	167767602	YP2	8/23/2024
12	167767583	B4	8/23/2024	32	167767603	ZA1	8/23/2024
13	167767584	B5	8/23/2024	33	167767604	ZB1	8/23/2024
14	167767585	B6	8/23/2024	34	167767605	ZB2	8/23/2024
15	167767586	B7	8/23/2024	35	167767606	ZP1	8/23/2024
16	167767587	B8	8/23/2024	36	167767607	ZP2	8/23/2024
17	167767588	C1SG	8/23/2024				
18	167767589	C2	8/23/2024				
19	167767590	P1	8/23/2024				
20	167767591	P2	8/23/2024				

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

Truss Engineering Co. under my direct supervision

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

Truss Design Engineer's Name: Tony Miller

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

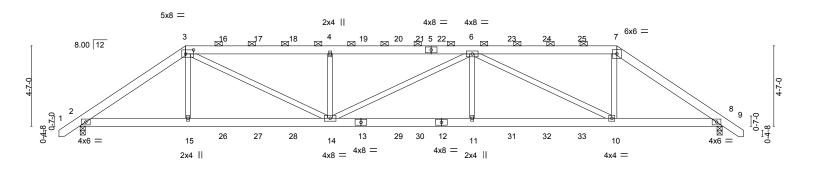
North Carolina COA: C-0844

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



Job Truss Truss Type Qty Ply Lot 7 Magnolia Hills 167767572 J0724-4089 Α1 HIP GIRDER Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:52:18 2024 Page 1 $ID: 3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f$ 37-9-8 1-2-8 1-2-8 6-0-0 8-2-15 8-1-3 8-2-15 6-0-0

Scale = 1:65.6



	6-0-0 6-0-0	14-2-15 8-2-15			22-4-1 8-1-3		30- 8-2		36-7-0 6-0-0	——
	3:0-5-8,0-2-12]	02.0								
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/1	2-0-0 1.15 1.15 NO	ВС	0.36 0.50 0.90	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.15 11-14 -0.31 11-14 0.08 8 0.17 11-14	I/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 489 lb	GRIP 244/190 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

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

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

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

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

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

8-10=-874/3682

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

7-10=-359/1914

NOTES-

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

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=653, 8=653.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

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

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

Continued on page 2

🛕 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 chort 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 ANS/ITPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Buildling Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road Edenton, NC 27932 Job Truss Truss Type Qty Ply Lot 7 Magnolia Hills 167767572 J0724-4089 Α1 HIP GIRDER Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:52:18 2024 Page 2 ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

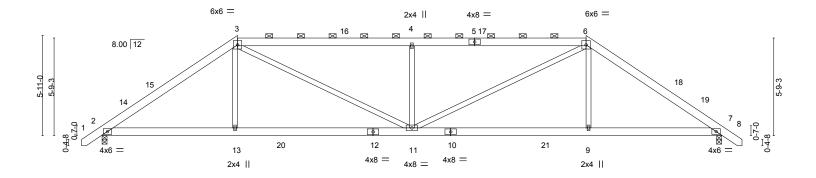
Vert: 3=-104(B) 7=-104(B) 13=-38(B) 15=-351(B) 14=-38(B) 4=-104(B) 11=-38(B) 10=-351(B) 6=-104(B) 12=-38(B) 16=-104(B) 17=-104(B) 18=-104(B) 19=-104(B) 20=-104(B) 21=-104(B) 22=-104(B) 23=-104(B) 24=-104(B) 25=-104(B) 26=-38(B) 27=-38(B) 27=-38(B) 29=-38(B) 30=-38(B) 31=-38(B) 32=-38(B) 32=-38(B)



Job Truss Truss Type Qty Lot 7 Magnolia Hills 167767573 J0724-4089 A2 HIP Job Reference (optional) 8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:52:18 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 36-7-0 37-9-8 1-2-8 8-0-0 8-0-0 18-3-8 10-3-8 10-3-8 8-0-0

Scale = 1:68.0



	8-0-0	18-3-8	28-7-0	36-7-0
	8-0-0	10-3-8	10-3-8	8-0-0
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	TC 0.50 BC 0.36 WB 0.54	DEFL. in (loc) l/defl L/d /ert(LL) -0.10 11 >999 360 /ert(CT) -0.22 9-11 >999 240 /orz(CT) 0.06 7 n/a n/a Vind(LL) 0.08 11 >999 240	PLATES GRIP MT20 244/190 Weight: 241 lb FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

WEBS 2x4 SP No.2

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

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

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 8-0-0, Exterior(2) 8-0-0 to 14-2-11, Interior(1) 14-2-11 to 28-7-0, Exterior(2) 28-7-0 to 34-9-11, Interior(1) 34-9-11 to 37-7-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) 2, 7.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

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

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

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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818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply Lot 7 Magnolia Hills 167767574 J0724-4089 A3 HIP Job Reference (optional) 8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:52:19 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

8-3-8

26-7-0

8-3-8

Scale = 1:68.0

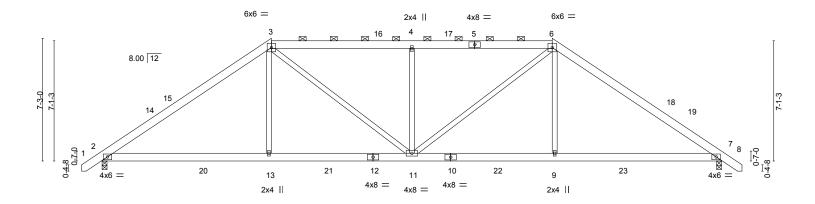
37-9-8 1-2-8

10-0-0

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

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

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



	10-0-0 10-0-0	18-3-8 8-3-8	26-7-0 8-3-8	36-7-0 10-0-0	
LOADING (psf)	SPACING- 2-0-0	1	PEFL. in (loc) I/defl	L/d PLATES GRIP	
TCLL 20.0 TCDL 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15		'ert(LL) -0.10 2-13 >999 'ert(CT) -0.19 2-13 >999	360 MT20 244/190 240)
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2015/TPI2014	-	lorz(CT) 0.06 7 n/a Vind(LL) 0.06 2-13 >999	n/a 240 Weight: 246 lb FT = 2	20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD BOT CHORD

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

WEBS 2x4 SP No.2

REACTIONS. (size)

2=0-3-8, 7=0-3-8 Max Horz 2=-176(LC 10) Max Uplift 2=-50(LC 12), 7=-50(LC 13) Max Grav 2=1664(LC 2), 7=1664(LC 2)

10-0-0

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 10-0-0, Exterior(2) 10-0-0 to 16-2-11, Interior(1) 16-2-11 to 26-7-0, Exterior(2) 26-7-0 to 32-9-11, Interior(1) 32-9-11 to 37-7-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

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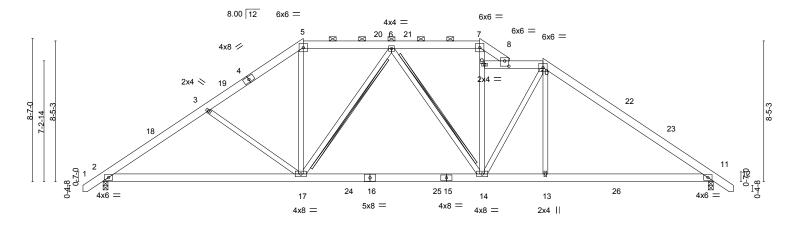


Job Truss Truss Type Qty Ply Lot 7 Magnolia Hills 167767575 J0724-4089 A4 **ROOF SPECIAL** Job Reference (optional) 8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:52:20 2024 Page 1 Fayetteville, NC - 28314, Comtech, Inc.

5-3-8

 $ID: 3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f$ 24-4-8 26-4-8 37-9-8 1-2-8 22-7-0 5-3-8 1-9-8 2-0-0 10-2-8

Scale = 1:69.1



	12-0-0	+	22-7-0 10-7-0	26-4-8 26 ₇ 6-8 3-9-8 0-2-0	36-7-0 10-0-8
Plate Offsets (X,Y)	[8:0-3-0,0-3-13]				
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.73 BC 0.57 WB 0.34	DEFL. in Vert(LL) -0.22 1 Vert(CT) -0.34 1 Horz(CT) 0.06		PLATES GRIP MT20 244/190
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.06 1		Weight: 274 lb FT = 20%

BRACING-LUMBER-

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

2x4 SP No.2 **WEBS**

TOP CHORD

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

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

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

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

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

Brace must cover 90% of web length.

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

Max Horz 2=210(LC 11)

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

6-3-13 6-3-13

5-8-2

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

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

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

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

10-13=0/334

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 12-0-0, Exterior(2) 12-0-0 to 16-4-13, Interior(1) 16-4-13 to 22-7-0, Exterior(2) 22-7-0 to 24-4-8, Interior(1) 24-4-8 to 26-4-8, Exterior(2) 26-4-8 to 30-9-5, Interior(1) 30-9-5 to 37-7-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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

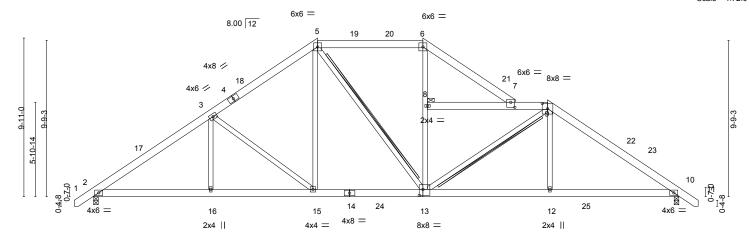
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job Truss Truss Type Qty Ply Lot 7 Magnolia Hills 167767576 J0724-4089 A5 **ROOF SPECIAL** Job Reference (optional) 8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:52:20 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

14-0-0 6-8-2

Scale = 1:72.0



20-4-0							
7-3-13	14-0-0	20-7-0	26-4-8	26 ₁ 6-8	28 ₁ 6-8	36-7-0	1
7-3-13	6-8-2	6-7-0	5-9-8	0-2-0	0-2-0	8-0-8	
				1-1	0-0		
 [7:0-3-0 0-3-13] [9:0-4-0 0-3-1	5] [13:0-2-12 0-4-8]						

Plate Of	ISEIS (X,Y)	[7:0-3-0,0-3-13], [9:0-4-0,0-3-15], [3:0-2-12,0-4-8]	
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 0.99	Vert(LL) -0.14 13-15 >999 360 MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.32	Vert(CT) -0.25 13-15 >999 240
BCLL	0.0 *	Rep Stress Incr YES	WB 0.70	Horz(CT) 0.06 10 n/a n/a
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.09 13 >999 240 Weight: 287 lb FT = 20%

LUMBER-

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

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 5-0-2 oc purlins, except 2-0-0 oc purlins (2-2-0 max.): 5-6, 8-9.

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

28-4-8

BOT CHORD WEBS

2x4 SPF No.2 - 9-13, 5-13 Fasten (2X) T and I braces to narrow edge of web with 10d

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

Brace must cover 90% of web length.

JOINTS

1 Brace at Jt(s): 8

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

1-2-8

7-3-13 7-3-13

Max Horz 2=241(LC 11)

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

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

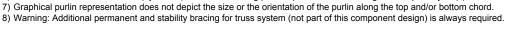
TOP CHORD 2-3=-2229/479, 3-5=-1740/503, 5-6=-1410/499, 6-7=-1721/497, 7-9=-1390/334,

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

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 14-0-0, Exterior(2) 14-0-0 to 18-4-13, Interior(1) 18-4-13 to 20-7-0, Exterior(2) 20-7-0 to 24-11-13, Interior(1) 24-11-13 to 28-4-8, Exterior(2) 28-4-8 to 32-9-5, Interior(1) 32-9-5 to 37-7-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





August 23,2024

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

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

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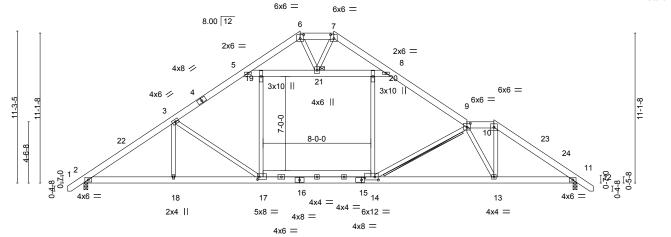


Job Truss Truss Type Qty Lot 7 Magnolia Hills 167767577 J0724-4089 A6 **ROOF SPECIAL** Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:52:21 2024 Page 1

ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 18-6-8 28-5-0 21-3-8 30-5-0 36-7-0 37-9-8 1-2-8 13-3-8 6-7-12 2-9-0 2-6-0 2-9-0 7-1-8 2-0-0 6-2-0

Scale = 1:85.5



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

JOINTS

LUMBER-**BRACING-**

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

5-8: 2x6 SP No.1

BOT CHORD WEBS

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

2-0-0 oc purlins (5-9-6 max.): 6-7, 9-10

Rigid ceiling directly applied or 10-0-0 oc bracing 2x4 SPF No.2 - 9-14

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

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

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

Max Horz 2=272(LC 11)

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

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

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

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

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

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

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

NOTES-

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

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

3) Provide adequate drainage to prevent water ponding.

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

* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11.

7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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

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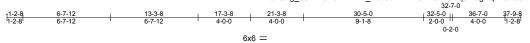
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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 Lot 7 Magnolia Hills 167767578 J0724-4089 A7 **ROOF SPECIAL** Job Reference (optional) 8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:52:22 2024 Page 1

Fayetteville, NC - 28314, Comtech, Inc.

ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:87.4

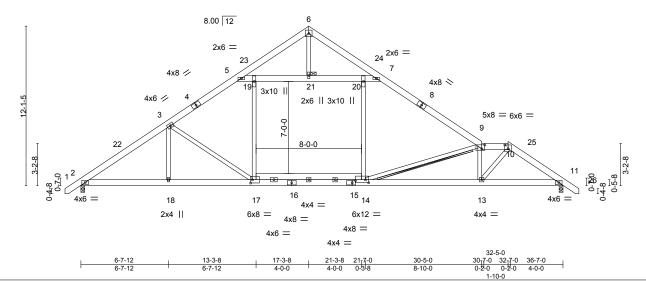


Plate Offsets (X,Y)	[9:0-2-12,0-3-8], [10:0-3-0,0-3-6], [14:0)-3-0,0-2-12], [15:0-3-0,0-2	-0], [17:0-1-8,0-3-0]	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.38	Vert(LL) -0.30 13-14 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.79	Vert(CT) -0.47 13-14 >934 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.62	Horz(CT) 0.07 11 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.22 13-14 >999 240	Weight: 306 lb FT = 20%

LUMBER-BRACING-

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

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

TOP CHORD

JOINTS

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

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

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing **WEBS** 2x4 SPF No.2 - 9-14

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

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

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

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

Max Horz 2=-294(LC 10)

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

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

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

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

BOT CHORD 2-18=-184/2063, 17-18=-184/2063, 14-17=-97/1739, 13-14=-390/2769, 11-13=-261/1887

3-17=-495/220, 9-13=-1025/288, 10-13=-246/1539, 9-14=-1289/325, 5-19=-1209/415, 19-21=-1209/415, 20-21=-1209/415, 7-20=-1209/415, 17-19=-21/588, 14-20=0/686,

6-21=0/467

NOTES-

WEBS

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

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

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

- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 11=102
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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

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Job Truss Truss Type Qty Lot 7 Magnolia Hills 167767579 J0724-4089 **A8** ROOF SPECIAL GIRDER Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:52:23 2024 Page 1

36-7-0

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

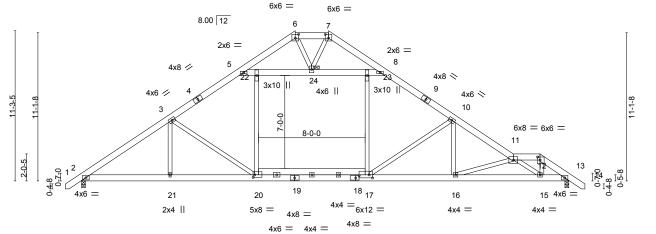
2-0-0 oc purlins (6-0-0 max.): 6-7, 11-12.

1 Brace at Jt(s): 24

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

ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 18-6-8 21-3-8 2-6-0 2-9-0

Scale = 1:86.5



	6-7-12	13-3-8	16-0-8	18-6-8 I	21-3-8 21 _T 7-0	27-11-4	34-5-0	34 ₁ 7-0	1
	6-7-12	6-7-12	2-9-0	2-6-0	2-9-0 0-3 <u>!</u> -8	6-4-4	6-5-12	0-2-0	1
								2-0-0	
[6·0 3 0 0 3 6	1 7.0 2 0 0 2 61 112.0	2 4 0 2 121 [17:0 3	1 101 0 0 0	10.0 3 0	0.001 [0.00	1 0 0 2 /1			

BRACING-

TOP CHORD

BOT CHORD

JOINTS

Plate Of	ISETS (X,Y)	[6:0-3-0,0-3-6], [7:0-3-0,0-3-6], [12:0-2	-4,0-2-12], [17:0-3-0,0-2-1	2], [18:0-3-0,0-2-0], [20:0-1-8,0-2-4]	
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 0.39	Vert(LL) -0.22 16-17 >999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.72	Vert(CT) -0.36 16-17 >999 240	I
BCLL	0.0 *	Rep Stress Incr NO	WB 0.97	Horz(CT) 0.07 13 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.17 16-17 >999 240	Weight: 315 lb FT = 20%

LUMBER-

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

5-8: 2x6 SP No.1

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

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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2343/123, 3-5=-1978/151, 5-6=-770/54, 6-7=-692/60, 7-8=-762/57,

8-10=-2021/142, 10-11=-2742/161, 11-12=-1683/79, 12-13=-2245/74 $2-21 = -135/2030,\ 20-21 = -135/2030,\ 17-20 = 0/1686,\ 16-17 = -21/2238,\ 15-16 = -133/3325,$

BOT CHORD 13-15=-12/1770

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

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

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 13=101.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 36 lb up at 34-5-0 on top chord, and 10 lb down at 34-5-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

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



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

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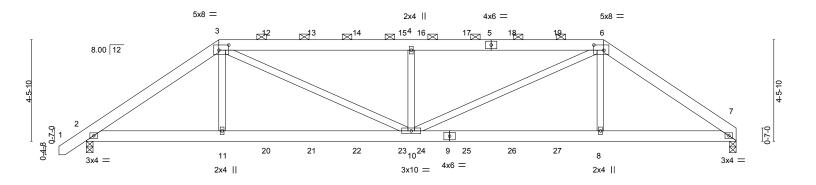
Job Truss Truss Type Qty Ply Lot 7 Magnolia Hills 167767580 J0724-4089 **B1** HIP GIRDER Job Reference (optional)
8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:52:24 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, $ID: 3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f$

8-5-12

8-5-12

Scale = 1:50.8

5-10-0



	-	5-10-0 5-10-0		8-5-12	22-9-8 8-5-12	
Plate Offs	sets (X,Y)	[3:0-5-4,0-2-12], [6:0-5-4	,0-2-12]			
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	20.Ó	Plate Grip DOL	1.15	TC 0.32	Vert(LL) -0.07 10 >999 360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC 0.28	Vert(CT) -0.13 10-11 >999 240	
BCLL	0.0 *	Rep Stress Incr	NO	WB 0.21	Horz(CT) 0.04 7 n/a n/a	
BCDL	10.0	Code IRC2015/TI	PI2014	Matrix-S	Wind(LL) 0.07 10 >999 240	Weight: 372 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

1-2-8

5-10-0

2x4 SP No.2 **WEBS**

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

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

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

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=483, 2=501.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 134 lb down and 118 lb up at 5-10-0, 139 lb down and 115 lb up at 7-10-12, 139 lb down and 115 lb up at 9-10-12, 139 lb down and 115 lb up at 11-10-12, 139 lb down and 115 lb up at 13-10-12, 139 lb down and 115 lb up at 14-8-12, 139 lb down and 115 lb up at 16-8-12, 139 lb down and 115 lb up at 18-8-12, and 139 lb down and 115 lb up at 20-8-12, and 134 lb down and 118 lb up at 22-9-8 on top chord, and 329 lb down and 119 lb up at 5-10-0, 73 lb down at 7-10-12, 73 lb down at 9-10-12, 73 lb down at 11-10-12, 73 lb down at 13-10-12, 73 lb down at 14-8-12, 73 lb down at 16-8-12, 73 lb down at 18-8-12, and 73 lb down at 20-8-12, and 329 lb down and 119 lb up at 22-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



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

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

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

August 23,2024

LOAD CASE(S) Standard

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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 7 Magnolia Hills 167767580 J0724-4089 В1 HIP GIRDER Z Job Reference (optional) 8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:52:24 2024 Page 2

Comtech, Inc, Fayetteville, NC - 28314,

ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

Concentrated Loads (lb)

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

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



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Lot 7 Magnolia Hills 167767581 J0724-4089 B2 ROOF SPECIAL GIRDER Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:52:24 2024 Page 1 ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

6-5-12

20-9-8

6-5-12

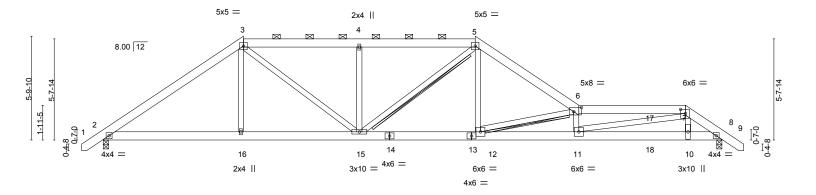
Scale: 3/16"=1

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

32-6-8

5-11-8

5-9-8



		7-10-0	14-3-12	20-9-8	26-7-0	32-6-8	34-7-0
	<u>'</u>	7-10-0	6-5-12	6-5-12	5-9-8	5-11-8	2-0-8
Plate Offsets	s (X,Y)	[6:0-5-4,0-2-12], [7:0-3-4,0-2-1	2]				
LOADING (psf)	SPACING- 2-0)-0 CSI .	DEFL.	in (loc) I/defl L/d	PLATES	GRIP
TCLL 2	20.0	Plate Grip DOL 1.	15 TC 0.51	Vert(LL) -0.2	6 11-12 >999 360	MT20	244/190
TCDL 1	10.0	Lumber DOL 1.	15 BC 0.57	Vert(CT) -0.5	3 11-12 >776 240		
BCLL	0.0 *	Rep Stress Incr	1O WB 0.83	Horz(CT) 0.0	07 8 n/a n/a		
BCDL 1	10.0	Code IRC2015/TPI201	4 Matrix-S	Wind(LL) 0.1	8 11-12 >999 240	Weight: 242 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1

BOT CHORD 2x6 SP No.1 *Except*

8-13: 2x6 SP 2400F 2.0E

2x4 SP No.2 WEBS

BRACING-

WEBS

TOP CHORD **BOT CHORD**

2-0-0 oc purlins (3-1-1 max.): 3-5, 6-7.

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

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

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

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

Brace must cover 90% of web length.

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

Max Horz 2=142(LC 26)

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

7-10-0 7-10-0

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

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

7-8=-2543/104

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

8-10=-42/2029

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

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 64 lb down and 27 lb up at 30-5-12, and 132 lb down and 62 lb up at 32-6-8 on top chord, and 6 lb down at 30-5-12, and 15 lb down at 32-5-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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



Continued on page 2

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BFFORF USF

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Job Truss Truss Type Qty Lot 7 Magnolia Hills 167767581 J0724-4089 B2 ROOF SPECIAL GIRDER

Comtech, Inc, Fayetteville, NC - 28314,

Job Reference (optional) 8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:52:24 2024 Page 2 ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

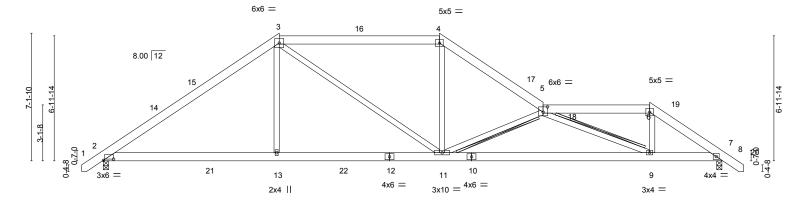
Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 5-6=-60, 6-7=-60, 7-9=-60, 2-8=-20

Job Truss Truss Type Qty Ply Lot 7 Magnolia Hills 167767582 J0724-4089 **B3 ROOF SPECIAL** Job Reference (optional) 8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:52:25 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

 $ID: 3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f$ 24-7-0 34-7-0 30-6-8 9-10-0 8-11-8 5-9-8 5-11-8 4-0-8 1-2-8

Scale: 3/16"=1



	<u></u>	9-10-0 9-10-0	18-9-8 8-11-8	30-6-8 11-9-0	34-7-0 4-0-8
Plate Offs	sets (X,Y)	[2:0-6-12,0-0-13], [5:0-3-0,0-3-8]	0110	11.00	400
LOADING	(psf)	SPACING- 2-0-0	CSI. DEFI	in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.56 Vert(,	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.57 Vert(,	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.50 Horz	,	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S Wind	(LL) 0.08 9-11 >999 240	Weight: 235 lb FT = 20%

LUMBER-**BRACING-**

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

WEBS 2x4 SP No.2 TOP CHORD

WEBS

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

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

BOT CHORD

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

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

Brace must cover 90% of web length.

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

Max Horz 2=-173(LC 10)

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

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

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

BOT CHORD 2-13=-180/1670, 11-13=-182/1658, 9-11=-736/3460, 7-9=-265/1823 WFBS

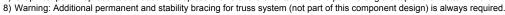
3-13=0/613, 3-11=-100/504, 4-11=-79/842, 5-11=-1798/567, 5-9=-1848/522,

6-9=-86/950

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf, BCDL=6.0psf, h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 9-10-0, Exterior(2) 9-10-0 to 14-2-13, Interior(1) 14-2-13 to 18-9-8, Exterior(2) 18-9-8 to 23-2-5, Interior(1) 23-2-5 to 30-6-8, Exterior(2) 30-6-8 to 34-11-5, Interior(1) 34-11-5 to 35-7-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





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

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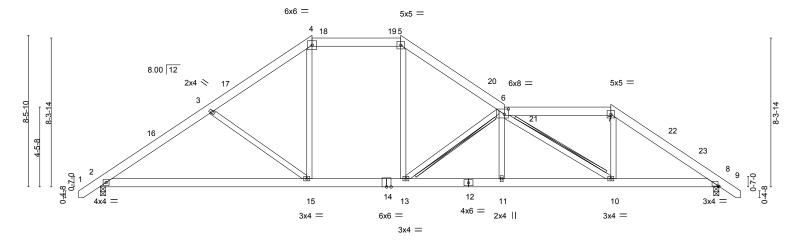


Job Truss Truss Type Qty Lot 7 Magnolia Hills 167767583 J0724-4089 B4 **ROOF SPECIAL** Job Reference (optional) 8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:52:26 2024 Page 1

Comtech, Inc, Fayetteville, NC - 28314,

 $ID: 3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f$ 22-7-0 28-6-8 6-2-14 5-7-3 4-11-8 5-9-8 5-11-8 6-0-8 1-2-8

Scale: 3/16"=1



		11-10-0			22-7-0	28-6-8	34-7-0	
	ı	11-10-0	' 4-1	I1-8	5-9-8	5-11-8	6-0-8	ı
Plate Offsets ()	Y) [6:0-2-12,0-3-8], [8:0-0-9,0-0-21						
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 0.28	Vert(LL)	-0.24 11-13 >999	360	MT20	244/190
TCDL 10.0	Lumber DO	DL 1.15	BC 0.72	Vert(CT)	-0.40 11-13 >999	240		
BCLL 0.0	* Rep Stress	Incr YES	WB 0.41	Horz(CT)	0.06 8 n/a	n/a		
BCDL 10.0	Code IRC	2015/TPI2014	Matrix-S	Wind(LL)	0.17 11-13 >999	240	Weight: 244 lb	FT = 20%

LUMBER-

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

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

WEBS

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

2-0-0 oc purlins (5-10-12 max.): 4-5, 6-7

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SPF No.2 - 6-13, 6-10

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

Brace must cover 90% of web length.

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

Max Horz 2=205(LC 11)

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

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

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

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

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

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 11-10-0, Exterior(2) 11-10-0 to 16-2-13, Interior(1) 16-2-13 to 16-9-8, Exterior(2) 16-9-8 to 21-2-5, Interior(1) 21-2-5 to 28-6-8, Exterior(2) 28-6-8 to 32-11-5, Interior(1) 32-11-5 to 35-7-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 8=105
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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

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Job Truss Truss Type Qty Lot 7 Magnolia Hills 167767584 J0724-4089 **B5 ROOF SPECIAL** Job Reference (optional) 8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:52:26 2024 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

6-7-3

20-7-0

5-9-8

26-6-8

5-11-8

Scale = 1:66.4

35-9-8 1-2-8

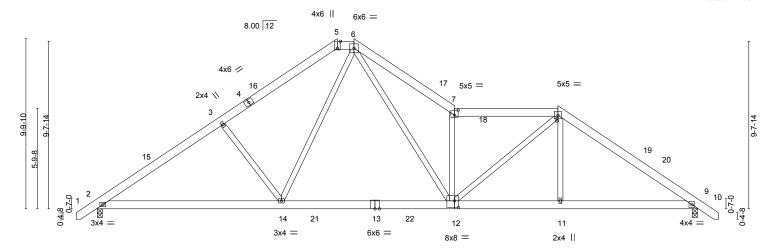
34-7-0

8-0-8

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

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

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



		10-7-5			9-11-10		5-11-0		0-0-0	
Plate Off	fsets (X,Y)	[5:0-4-13,Edge], [7:0-2-8,	0-3-8], [12:0-2	2-12,0-4-8]						
LOADIN	\(\(\dots\)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC 0.	- ' '	-0.22 12-14	>999	360	MT20	244/190
TCDL BCLL	10.0 0.0 *	Lumber DOL Rep Stress Incr	1.15 YES	BC 0. WB 0.	48 Vert(CT) 93 Horz(CT)	-0.36 12-14 0.05 9	>999 n/a	240 n/a		
BCDL	10.0	Code IRC2015/TP		Matrix-S	Wind(LL)	0.09 12-14	>999	240	Weight: 248 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

20-7-0

LUMBER-

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

BOT CHORD WEBS 2x4 SP No.2

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

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

7-2-14

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2074/448, 3-5=-1866/484, 5-6=-1544/480, 6-7=-2712/753, 7-8=-2168/541,

10-7-5

TOP CHORD

8-9=-2067/449

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

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

8-11=0/301

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 13-10-0, Exterior(2) 13-10-0 to 19-2-5, Interior(1) 19-2-5 to 26-6-8, Exterior(2) 26-6-8 to 30-11-5, Interior(1) 30-11-5 to 35-7-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

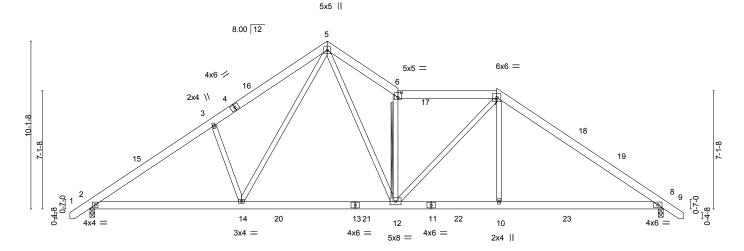




Job Truss Truss Type Qty Lot 7 Magnolia Hills 167767585 J0724-4089 B6 **ROOF SPECIAL** Job Reference (optional)
8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:52:27 2024 Page 1 Fayetteville, NC - 28314, Comtech, Inc.

ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 24-6-8 34-7-0 35-9-8 1-2-8 18-7-0 6-10-1 5-11-8 10-0-8

Scale = 1:69.5



	9-1-11 9-1-11	18-7-0 9-5-5	24-6-8 5-11-8	34-7-0 10-0-8	
Plate Offsets (X,Y)	[6:0-2-8,0-3-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl	L/d PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.60	Vert(LL) -0.18 12-14 >999	360 MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.48	Vert(CT) -0.28 12-14 >999	240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.69	Horz(CT) 0.05 8 n/a	n/a	
BCDI 10.0	Code IRC2015/TPI2014	Matriy-S	Wind(LL) 0.06 8-10 >999	240 Weight: 253 II	o FT = 20%

LUMBER-

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

BRACING-

WEBS

TOP CHORD **BOT CHORD**

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

T-Brace:

2x4 SPF No.2 - 6-12

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

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

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

Max Horz 2=246(LC 11)

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

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

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

2-14=-211/1950, 12-14=-30/1420, 10-12=-161/1757, 8-10=-160/1766 WEBS 3-14=-477/288, 5-14=-181/837, 5-12=-371/1629, 6-12=-1501/461, 7-12=-56/452,

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 14-3-12, Exterior(2) 14-3-12 to 18-7-0, Interior(1) 18-7-0 to 24-6-8, Exterior(2) 24-6-8 to 28-11-5, Interior(1) 28-11-5 to 35-7-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 8=113.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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

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

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



Job Truss Truss Type Qty Lot 7 Magnolia Hills 167767586 J0724-4089 B7 **ROOF SPECIAL**

Fayetteville, NC - 28314, Comtech, Inc.

Job Reference (optional) 8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:52:28 2024 Page 1

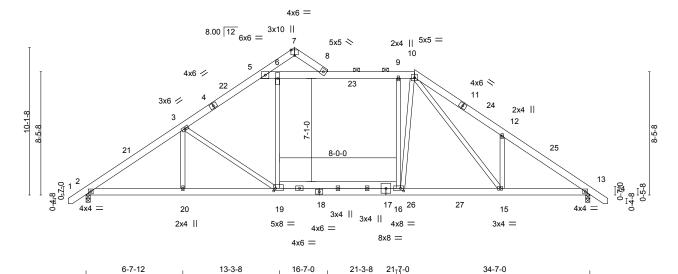
Structural wood sheathing directly applied or 4-1-5 oc purlins, except

2-0-0 oc purlins (5-4-1 max.): 5-10.

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

ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 22-6-8 1-3-0

Scale = 1:79.1



			6-7-12	ı	6-7-12	3-3-8	4-8-8	0-3-8		13-0-0		
Plate Off	sets (X,Y)	[7:0-3-0,	Edge], [16:0-2-8,	0-2-0], [19:0	0-1-8,0-2-0]							
LOADIN	G (psf)	SI	PACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	PI	late Grip DOL	1.15	TC	0.75	Vert(LL)	-0.29 15-16	>999	360	MT20	244/190
TCDL	10.0	Lu	umber DOL	1.15	BC	0.75	Vert(CT)	-0.42 15-16	>981	240		
BCLL	0.0 *	R	ep Stress Incr	YES	WB	0.44	Horz(CT)	0.06 13	n/a	n/a		
BCDL	10.0	C	ode IRC2015/TF	12014	Matri	x-S	Wind(LL)	0.14 15-16	>999	240	Weight: 283 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x6 SP No.1 TOP CHORD

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

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

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

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

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

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

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

10-16=-235/679

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 14-3-12, Exterior(2) 14-3-12 to 16-7-0, Interior(1) 16-7-0 to 22-6-8, Exterior(2) 22-6-8 to 26-11-5, Interior(1) 26-11-5 to 35-7-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb)

7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





Job Truss Truss Type Qty Ply Lot 7 Magnolia Hills 167767587 J0724-4089 **B8 ROOF SPECIAL**

Comtech, Inc, Fayetteville, NC - 28314, Job Reference (optional) 8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:52:28 2024 Page 1

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

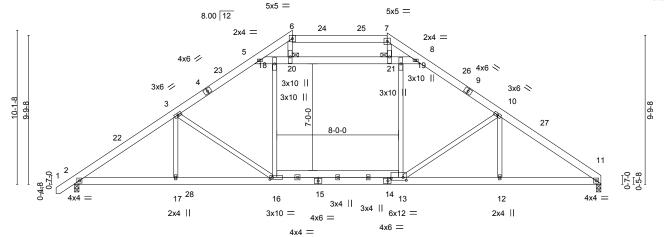
2-0-0 oc purlins (6-0-0 max.): 6-7.

1 Brace at Jt(s): 20, 21

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

 $ID: 3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f$ 20-6-8 7-6-4 5-11-8 7-4-12 6-7-12

Scale = 1:75.7



	6-7-12	13-3-8 14-7-0	20-6-8	27-11-4	34-7-0
	6-7-12	6-7-12 1-3-8	5-11-8	7-4-12	6-7-12
Plate Offsets (X,Y)	[13:0-2-8,0-2-4], [14:0-2-8,0-2-0], [16:)-2-0,0-1-8]			
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.25 BC 0.72 WB 0.70 Matrix-S	Vert(CT) -(Horz(CT) (in (loc) I/defl L/d 0.24 16-17 >999 360 0.28 16-17 >999 240 0.06 11 n/a n/a 0.12 12-13 >999 240	PLATES GRIP MT20 244/190 Weight: 284 lb FT = 20%

TOP CHORD

BOT CHORD

JOINTS

LUMBER-BRACING-

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

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

REACTIONS. (size) 2=0-3-8, 11=0-3-8 Max Horz 2=234(LC 9)

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

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

2-3=-2540/436, 3-5=-1997/454, 5-6=-1189/292, 6-7=-974/272, 7-8=-1265/300, TOP CHORD 8-10=-1962/462, 10-11=-2279/447

BOT CHORD 2-17=-259/2169, 16-17=-259/2169, 13-16=-119/1620, 12-13=-263/1798, 11-12=-263/1798 **WEBS** 3-17=0/314, 16-18=-14/763, 13-19=-25/607, 3-16=-668/190, 10-12=0/261,

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

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 14-3-12, Exterior(2) 14-3-12 to 18-8-9, Interior(1) 18-8-9 to 20-6-8, Exterior(2) 20-6-8 to 24-11-5, Interior(1) 24-11-5 to 34-5-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



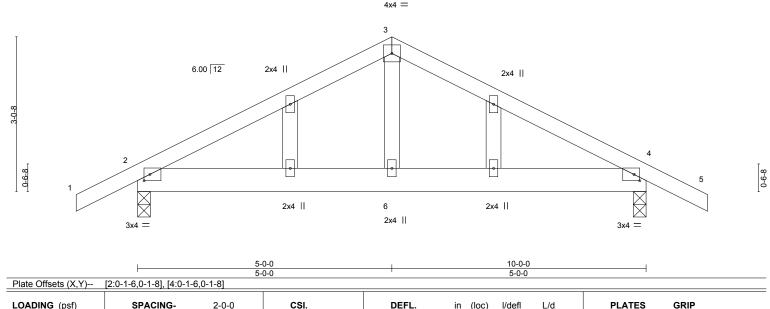
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 7 Magnolia Hills 167767588 J0724-4089 C1SG **GABLE** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:52:29 2024 Page 1 $ID: 3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f$ 5-0-0 5-0-0 11-2-8 1-2-8 5-0-0 1-2-8

Scale = 1:22.7



LOADING (psf) TCLL 20.0

SPACING-CSI. Plate Grip DOL 1.15 TC 0.20 10.0 Lumber DOL 1.15 ВС 0.10 0.0 Rep Stress Incr YES WB 0.05 Code IRC2015/TPI2014 10.0 Matrix-S

in (loc) I/defl L/d 240 Vert(LL) 0.02 4-6 >999 Vert(CT) -0.01 4-6 >999 240 Horz(CT) 0.00 n/a n/a **PLATES** 244/190 MT20

FT = 20% Weight: 52 lb

LUMBER-

TCDL

BCLL

BCDL

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

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

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

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

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

WEBS 3-6=-326/240

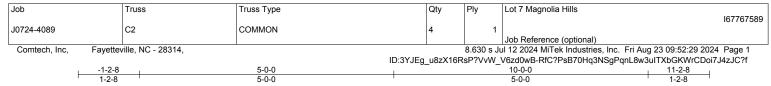
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=121, 4=121.



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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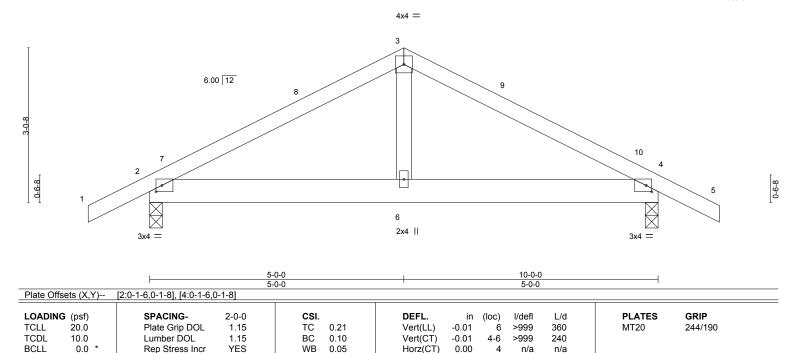




Scale = 1:22.7

FT = 20%

Weight: 48 lb



Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.02

>999

4-6

240

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

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

LUMBER-

BCDL

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

10.0

WEBS 2x4 SP No.2

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

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

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

Code IRC2015/TPI2014

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

WFBS 3-6=-327/240

NOTES-

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

Matrix-S

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



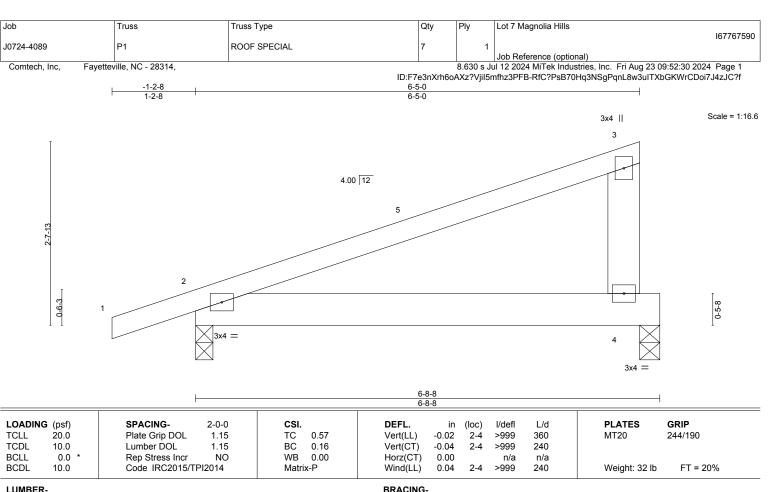


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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





TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

(size)

WEBS 2x6 SP No.1

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

> Max Grav 4=734(LC 1), 2=331(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 6-2-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=294, 2=134
- 5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 500 lb down and 669 lb up at 6-2-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-60, 2-4=-20 Concentrated Loads (lb) Vert: 4=-500(F)



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

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

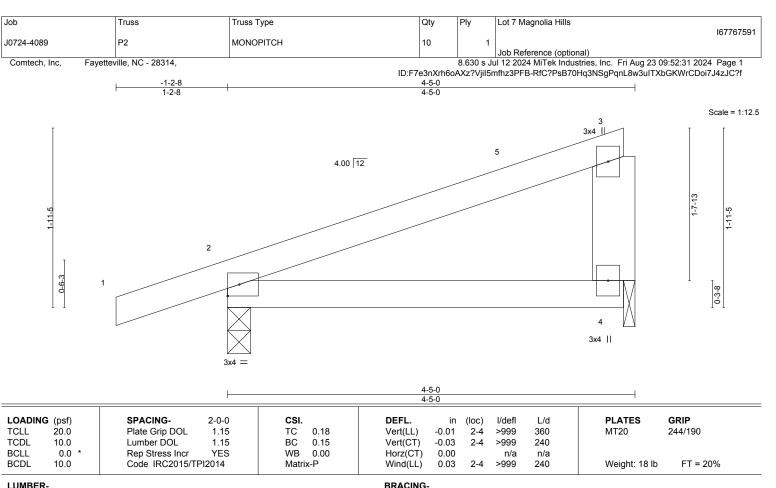
except end verticals.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 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)





TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x6 SP No.1

REACTIONS.

2=0-3-0, 4=0-1-8 (size) Max Horz 2=62(LC 8) Max Uplift 2=-109(LC 8), 4=-65(LC 8) Max Grav 2=256(LC 1), 4=149(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 4-2-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=109



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

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

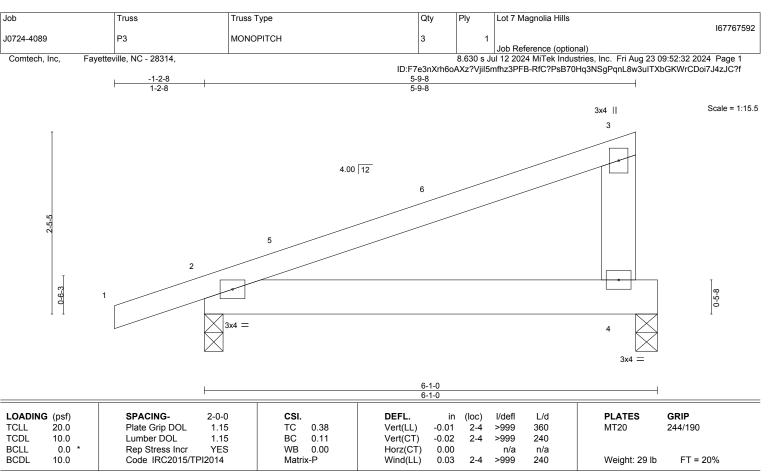
except end verticals.

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)





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x6 SP No.1

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

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

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 5-6-12 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=127



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

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

except end verticals.



Job Truss Truss Type Qty Lot 7 Magnolia Hills 167767593 J0724-4089 XA1 JACK-OPEN 14 Job Reference (optional)
8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:52:32 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 6-0-0 6-0-0 1-2-8 Scale = 1:26.1 8.00 12 0-2-0 3x4 = 6-0-0

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

I/defl

>999

>999

n/a

(loc)

3

-0.02

-0.03

-0.00

0.00

L/d

360

240

n/a

240

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

PLATES

Weight: 27 lb

MT20

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

GRIP

244/190

FT = 20%

LUMBER-

REACTIONS.

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

TOP CHORD 2x4 SP No 1

20.0

10.0

0.0

10.0

2x6 SP No.1 BOT CHORD

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

Code IRC2015/TPI2014

SPACING-

Plate Grip DOL

Rep Stress Incr

Lumber DOL

Max Horz 2=151(LC 12)

Max Uplift 3=-105(LC 12)

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

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

NOTES-

1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 5-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

CSI.

TC

ВС

WB

Matrix-P

0.51

0.13

0.00

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

2-0-0

1.15

1.15

YES

- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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) 3 = 105



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

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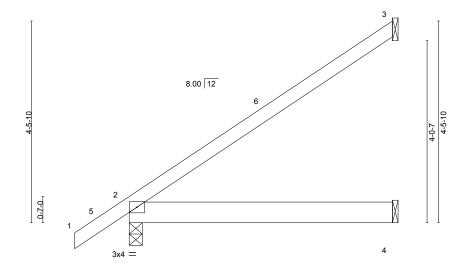


Job Truss Truss Type Qty Lot 7 Magnolia Hills 167767594 J0724-4089 XB1 JACK-OPEN 10 Job Reference (optional)
8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:52:32 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 5-10-0

-1-2-8 1-2-8 5-10-0

Scale = 1:25.5



		<u>'</u>	5-10-0	'	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (lo	oc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.49	Vert(LL) -0.01 2	2-4 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) -0.03 2	2-4 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	3 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.00	2 **** 240	Weight: 27 lb FT = 20%

5-10-0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

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

Max Horz 2=147(LC 12)

Max Uplift 3=-102(LC 12)

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

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 5-9-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3 = 102



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

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



Job Truss Truss Type Qty Lot 7 Magnolia Hills 167767595 J0724-4089 XB2 JACK-OPEN 2

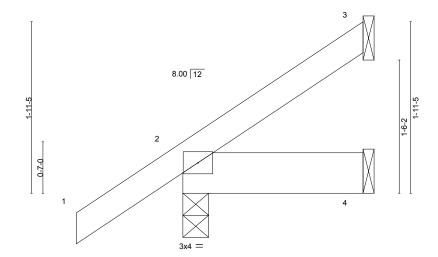
Comtech, Inc, Fayetteville, NC - 28314, Job Reference (optional) 8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:52:33 2024 Page 1

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

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

ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 2-0-8 2-0-8 -1-2-8 1-2-8

Scale = 1:13.1



BRACING-

TOP CHORD

BOT CHORD

LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00	2	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2	2014	Matri	x-P	Wind(LL)	0.00	2	****	240	Weight: 11 lb	FT = 20%

LUMBER-BOT CHORD

REACTIONS.

TOP CHORD 2x4 SP No.1

2x6 SP No.1

3=Mechanical, 2=0-3-8, 4=Mechanical (size) Max Horz 2=65(LC 12)

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

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

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



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Job Truss Truss Type Qty Lot 7 Magnolia Hills 167767596 J0724-4089 YA1 JACK-OPEN

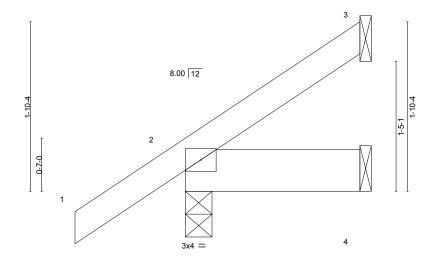
Comtech, Inc, Fayetteville, NC - 28314, Job Reference (optional) 8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:52:33 2024 Page 1

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

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

ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 1-10-15 1-2-8 1-10-15

Scale = 1:12.6



1-10-15 1-10-15

BRACING-

TOP CHORD

BOT CHORD

LOADIN	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	2	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.01	Vert(CT)	-0.00	2	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 10 lb	FT = 20%

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.1 BOT CHORD

2x6 SP No.1

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

Max Horz 2=63(LC 12)

Max Uplift 3=-29(LC 12), 2=-15(LC 12)

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

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.





Job Truss Truss Type Qty Lot 7 Magnolia Hills 167767597 J0724-4089 YA2 JACK-OPEN Job Reference (optional) 8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:52:34 2024 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 3-10-15 3-10-15 Scale = 1:19.3 0-5-3 8.00 12 2-9-1 0-2-0

	3-10-15												
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(I	L) -0.00	2-4	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	ВС	0.05	Vert(0	T) -0.01	2-4	>999	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT) -0.00	3	n/a	n/a			
BCDL	10.0	Code IRC2015/Ti	PI2014	Matr	ix-P	Wind	L) 0.00	2	****	240	Weight: 19 lb	FT = 20%	

3-10-15

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

2x4 SP No.1

TOP CHORD BOT CHORD 2x6 SP No.1

> 3=Mechanical, 2=0-3-8, 4=Mechanical (size) Max Horz 2=106(LC 12)

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

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

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

NOTES-

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



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

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



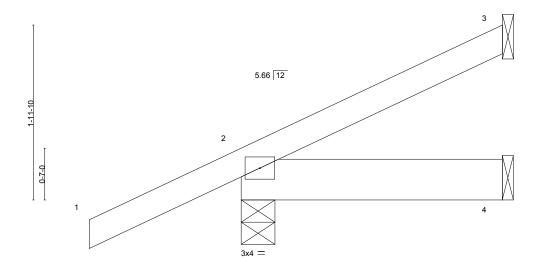
Job Truss Truss Type Qty Ply Lot 7 Magnolia Hills 167767598 J0724-4089 YA3 Half Hip Girder Job Reference (optional) 8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:52:34 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 2-11-4 2-11-4

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

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

Scale = 1:13.0



		<u> </u>	2-11-4 2-11-4	
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.18 BC 0.02 WB 0.00 Matrix-P	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 2 >999 360 Vert(CT) -0.00 2-4 >999 240 Horz(CT) -0.00 3 n/a n/a n/a Wind(LL) 0.00 2 ***** 240	PLATES GRIP MT20 244/190 Weight: 15 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x6 SP No.1

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

Max Horz 2=66(LC 12) Max Uplift 3=-31(LC 12), 2=-34(LC 12)

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

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

NOTES-

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

1-8-8

- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.





Job Truss Truss Type Qty Lot 7 Magnolia Hills 167767599 J0724-4089 YB1 JACK-OPEN

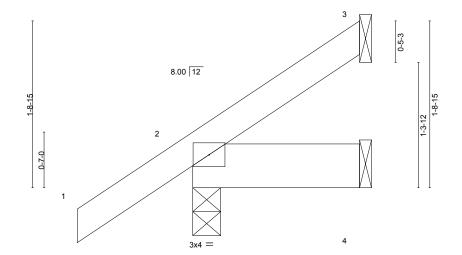
Comtech, Inc, Fayetteville, NC - 28314, Job Reference (optional) 8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:52:35 2024 Page 1

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

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

ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 1-2-8 1-8-15

Scale: 1"=1



1-8-15

BRACING-

TOP CHORD

BOT CHORD

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00	2	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI	2014	Matri	x-P	Wind(LL)	0.00	2	****	240	Weight: 10 lb	FT = 20%

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.1

BOT CHORD 2x6 SP No.1

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

Max Horz 2=60(LC 12)

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

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

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



Edenton, NC 27932

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

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



Job Truss Truss Type Qty Lot 7 Magnolia Hills 167767600 J0724-4089 YB2 JACK-OPEN

Fayetteville, NC - 28314, Comtech, Inc.

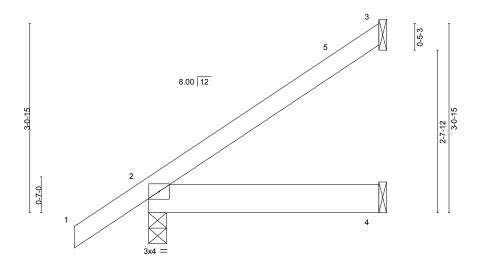
Job Reference (optional) 8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:52:35 2024 Page 1

Structural wood sheathing directly applied or 3-8-15 oc purlins.

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

ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 3-8-15 3-8-15 1-2-8

Scale = 1:18.7



3-0-13									
LOADING (psf)	SPACING- 2-0-0	CSI. DEFI	. in (loc)	I/defl L/d	PLATES GRIP				
TCLL 20.0	Plate Grip DOL 1.15	TC 0.19 Vert(.L) -0.00 2-4	>999 360	MT20 244/190				
TCDL 10.0	Lumber DOL 1.15	BC 0.04 Vert(CT) -0.00 2-4	>999 240					
BCLL 0.0	Rep Stress Incr YES	WB 0.00 Horz	CT) -0.00 3	n/a n/a					
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P Wind	LL) 0.00 2	**** 240	Weight: 18 lb FT = 20%				

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.1 BOT CHORD

2x6 SP No.1

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

Max Horz 2=102(LC 12) Max Uplift 3=-63(LC 12), 2=-7(LC 12)

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

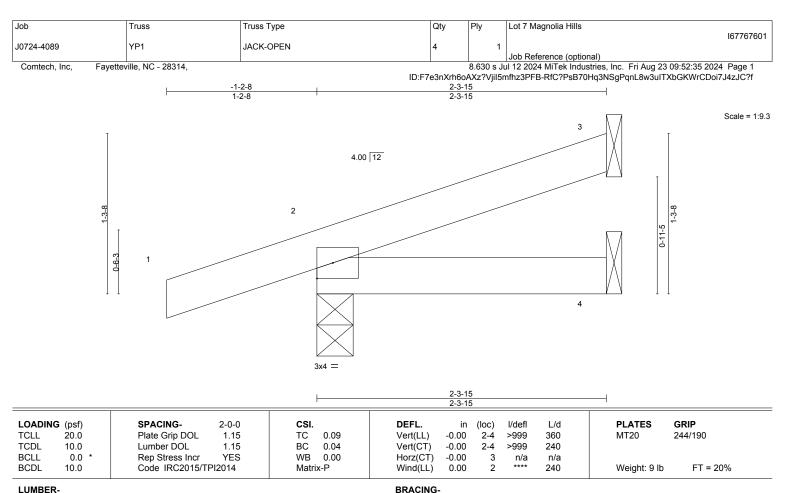
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 3-8-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.







TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

2x4 SP No.1 TOP CHORD BOT CHORD

2x4 SP No.1

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

Max Horz 2=41(LC 8)

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

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

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

NOTES-

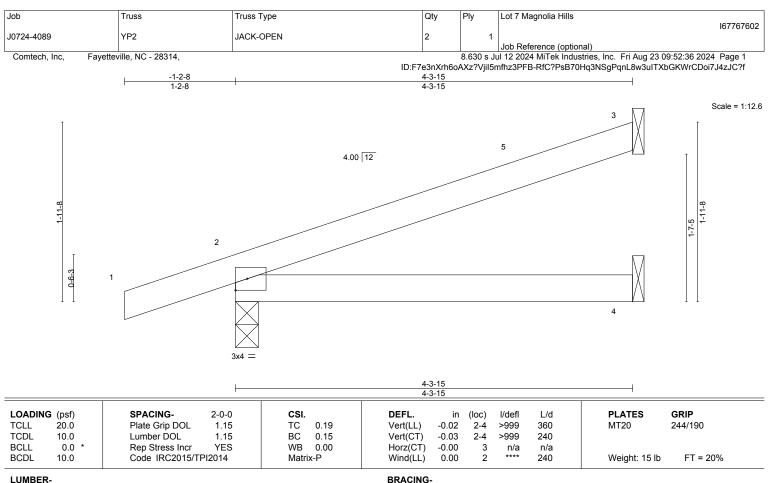
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



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

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





TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

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

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

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

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

NOTES-

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



Structural wood sheathing directly applied or 4-3-15 oc purlins.

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



Job Truss Truss Type Qty Ply Lot 7 Magnolia Hills 167767603 J0724-4089 ZA1 DIAGONAL HIP GIRDER 2 Job Reference (optional) 8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:52:36 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

 $ID: 3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f$

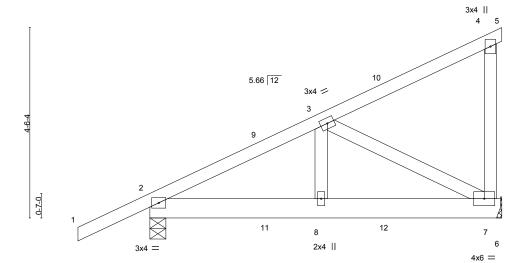
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

1-8-8 4-0-13 4-3-8

Scale = 1:27.4



4-0-13 4-3-8

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	0.21	Vert(LL)	-0.00	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	7-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TP	12014	Matri	x-P	Wind(LL)	0.00	8	>999	240	Weight: 51 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SP No.2

> 7=Mechanical, 2=0-4-9 (size) Max Horz 2=150(LC 8) Max Uplift 7=-110(LC 8), 2=-50(LC 8) Max Grav 7=353(LC 29), 2=456(LC 1)

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

TOP CHORD 2-3=-523/31

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

WEBS 3-7=-430/133

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=110
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 75 lb down and 33 lb up at 2-9-8, 75 lb down and 33 lb up at 2-9-8, and 107 lb down and 84 lb up at 5-7-7, and 107 lb down and 84 lb up at 5-7-7 on top chord , and 2 lb down at 2-9-8, 2 lb down at 2-9-8, and 20 lb down at 5-7-7, and 20 lb down at 5-7-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

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



August 23,2024

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



Job Truss Truss Type Qty Ply Lot 7 Magnolia Hills 167767604 J0724-4089 ZB1 DIAGONAL HIP GIRDER 2

Comtech, Inc, Fayetteville, NC - 28314, Job Reference (optional) 8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:52:37 2024 Page 1

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

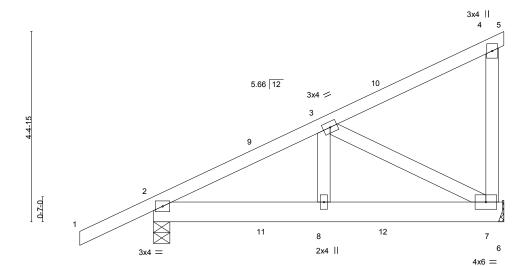
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

 $ID: 3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f$ 8-1-8

4-2-2

Scale = 1:26.7



3-11-6

1-8-8

3-11-6 3-11-6 4-2-2

BRACING-

TOP CHORD

BOT CHORD

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)	-0.00	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	7-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TP	12014	Matri	x-P	Wind(LL)	0.00	8	>999	240	Weight: 49 lb	FT = 20%

LUMBER-

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

WEBS 2x4 SP No.2

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

Max Horz 2=146(LC 8)

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

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

TOP CHORD 2-3=-502/26

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

WEBS 3-7=-408/127

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=104
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 74 lb down and 28 lb up at 2-6-11, 74 lb down and 28 lb up at 2-6-11, and 104 lb down and 79 lb up at 5-4-10, and 104 lb down and 79 lb up at 5-4-10 on top chord, and 0 lb down at 2-6-11, 0 lb down at 2-6-11, and 18 lb down at 5-4-10, and 18 lb down at 5-4-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

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



August 23,2024

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

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Job Truss Truss Type Qty Ply Lot 7 Magnolia Hills 167767605 J0724-4089 ZB2 JACK-OPEN Job Reference (optional)
8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:52:37 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Structural wood sheathing directly applied or 2-9-4 oc purlins.

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

1-8-8

Scale = 1:12.6

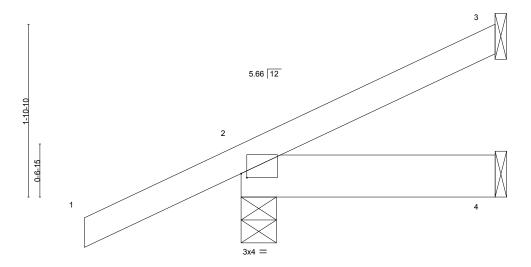


Plate Of	fsets (X,Y)	[2:0-0-12,0-0-9]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.00	` ź	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-P	Wind(LL)	0.00	2	****	240	Weight: 14 lb	FT = 20%

BRACING-

TOP CHORD **BOT CHORD**

LUMBER-

REACTIONS.

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

> 3=Mechanical, 2=0-4-10, 4=Mechanical (size)

Max Horz 2=64(LC 12) Max Uplift 3=-28(LC 12), 2=-35(LC 12) Max Grav 3=32(LC 1), 2=258(LC 1), 4=50(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.





Job Truss Truss Type Qty Ply Lot 7 Magnolia Hills 167767606 ZP1 J0724-4089 DIAGONAL HIP GIRDER Job Reference (optional) 8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:52:38 2024 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:F7e3nXrh6oAXz?Vjil5mfhz3PFB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ffnArchivered and the state of the property of the

3-0-15

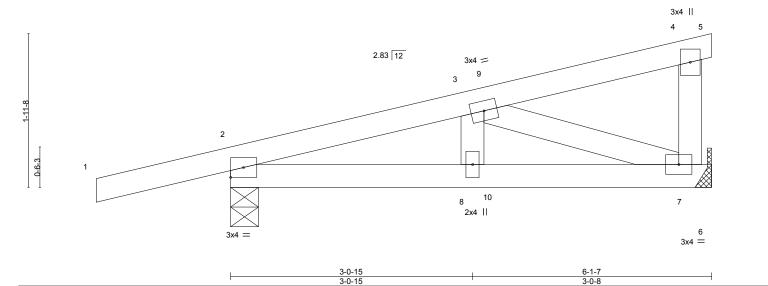
Scale = 1:14.7

3-0-8

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

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

except end verticals.



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defl L/d **PLATES** GRIP (loc) 20.0 Vert(LL) -0.00 360 244/190 **TCLL** Plate Grip DOL 1.15 TC 0.21 >999 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.21 Vert(CT) -0.01 8 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.06 Horz(CT) 0.00 n/a n/a **BCDL** 10.0 Code IRC2015/TPI2014 Matrix-P Wind(LL) 0.00 >999 240 Weight: 28 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SP No.2

> 7=Mechanical, 2=0-4-4 (size) Max Horz 2=63(LC 19)

1-8-8

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

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

TOP CHORD 2-3=-360/8

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

WEBS 3-7=-325/42

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 18 lb down and 20 lb up at 3-4-9, and 18 lb down and 20 lb up at 3-4-9 on top chord, and 4 lb down at 3-4-9, and 4 lb down at 3-4-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

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



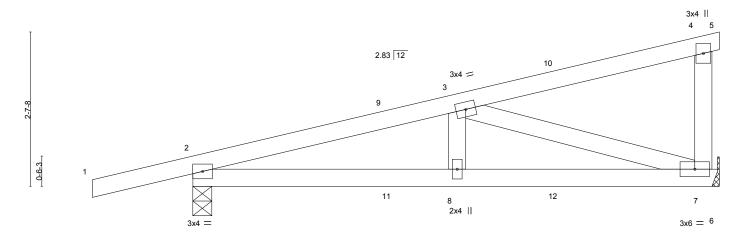
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 7 Magnolia Hills 167767607 J0724-4089 ZP2 DIAGONAL HIP GIRDER Job Reference (optional) 8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:52:38 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:F7e3nXrh6oAXz?Vjil5mfhz3PFB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 1-8-8 4-5-14 4-5-8

Scale = 1:19.6



	-	4-5-14 4-5-14	+		8-11-6 4-5-8	
LOADING (psf)	SPACING- 2-0-0	1	E FL. in	(/		ATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.33 Ve	ert(LL) 0.03	2-8 >999	240 MT	20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.28 Ve	ert(CT) -0.04	7-8 >999	240	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.25 Ho	orz(CT) 0.01	7 n/a	n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P			We	ight: 40 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

(size)

BOT CHORD WEBS 2x4 SP No.2

Max Horz 2=84(LC 4) Max Uplift 7=-153(LC 4), 2=-204(LC 4) Max Grav 7=396(LC 1), 2=488(LC 1)

7=Mechanical, 2=0-3-14

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

TOP CHORD 2-3=-777/243

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

WEBS 3-7=-742/292

NOTES-

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

LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

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



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

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

except end verticals.

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

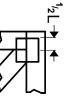
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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

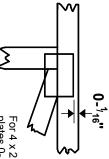


Symbols

PLATE LOCATION AND ORIENTATION



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



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

connector plates required direction of slots in This symbol indicates the

* Plate location details available in MiTek software or upon request

PLATE SIZE

4 × 4

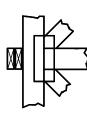
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



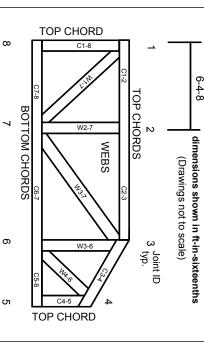
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

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

DSB-22:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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MiTek



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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

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

5

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

œ

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



RE: J0724-4090

Lot 7 Magnolia Hills

Trenco

818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: J0724-4090

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

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.6

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

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

No.	Seal#	Truss Name	Date
1	167767608	ET1	8/23/2024
2	167767609	ET2	8/23/2024
3	167767610	F01	8/23/2024
4	167767611	F02	8/23/2024
5	167767612	F03	8/23/2024
6	167767613	F04	8/23/2024
7	167767614	F05	8/23/2024
8	167767615	F06	8/23/2024
9	167767616	F07	8/23/2024
10	167767617	F08	8/23/2024
11	167767618	FG1	8/23/2024
12	167767619	FG2	8/23/2024

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

Truss Engineering Co. under my direct supervision

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

Truss Design Engineer's Name: Tony Miller

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

North Carolina COA: C-0844

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



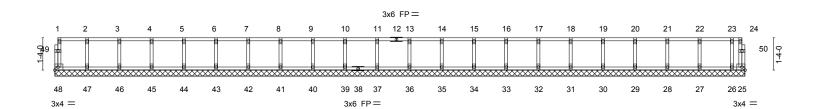
Job	Truss	Truss Type	Qty	Ply	Lot 7 Magnolia Hills
J0724-4090	ET1	GABLE	1	1	167767608
30724-4090		GABLE	'	'	Job Reference (optional)

0-11-8

8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:51:51 2024 Page 1 ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

Scale: 1/4"=1"



	1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	₁ 8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	₁ 16-0-0	17-4-0 ₁	18-8-0	20-0-0	21-4-0	22-8-0	24-0-0	25-4-0	26-8-0	₁ 28-0-0 28-6-8	
	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0 0-6-8	
LOAD	ING (ps	·f\		SPACIN	G-	2-0-0		C	SI.			DEFL.	in	(loc)	l/defl	L/d		DI	ATES		RIP	
	\1	,	_		-			T(10				٠,								
TCLL	40		1	Plate Gri		1.00					1	/ert(LL)	n/a		n/a	999		IVI	Γ20		44/190	
TCDL	10		1	umber [1.00		В				/ert(CT)	n/a		n/a	999						
BCLL	0	.0	F	Rep Stre	ss Incr	YES	;	W	B 0.0)3	H	Horz(CT)	0.00	25	n/a	n/a						
BCDL	5	.0		Code IR	C2015/T	PI2014		M	atrix-R									W	eight: 12	4 lb	FT = 20%F, 11	%Е

TOP CHORD

LUMBER-BRACING-

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

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

REACTIONS. All bearings 28-6-8.

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

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

NOTES-

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



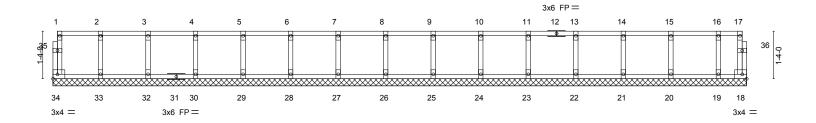


Job	Truss	Truss Type	Qty	Ply	Lot 7 Magnolia Hills	7
J0724-4090	ET2	GABLE	1	1	167767609	
30724-4090	E12	GABLE	'	'	Job Reference (optional)	

8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:51:52 2024 Page 1 ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-<u>11</u>-8

Scale: 3/8"=1"



1-4-0	4-0-0 5-4-0 6-8-0 1-4-0 1-4-0 1-4-0	8-0-0 9-4-0 1-4-0 1-4-0	10-8-0 1-4-0 1-4-0		-0-0 17-4-0 18-8-0 19-5-8 4-0 1-4-0 1-4-0 0-9-8
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.06 BC 0.01 WB 0.03 Matrix-R	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	- n/a 999	PLATES GRIP MT20 244/190 Weight: 86 lb FT = 20%F, 11%E

LUMBER-BRACING-

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

2x4 SP No.3(flat) **OTHERS** 2x4 SP No.3(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

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

REACTIONS. All bearings 19-5-8.

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

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

NOTES-

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





Job Truss Truss Type Qty Ply Lot 7 Magnolia Hills 167767610 Floor J0724-4090 F01 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:51:52 2024 Page 1 ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0-1-8

HI 1-3-0

2-0-4 0-9-0

2-2-12

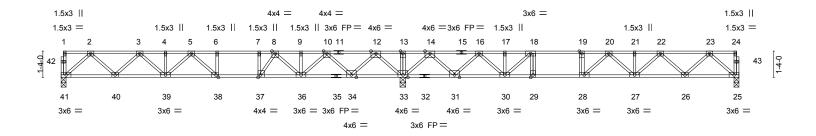
3460

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

Structural wood sheathing directly applied, except end verticals.

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

0-1-8 Scale = 1:58.6



ŀ		17-4-12		17-1-4	
Plate Off	sets (X,Y)	[37:0-1-8,Edge], [38:0-1-8,Edge]			
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	40.0	Plate Grip DOL 1.00	TC 0.97	Vert(LL) -0.22 27-28 >919 480	MT20 244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.86	Vert(CT) -0.30 27-28 >679 360	
BCLL	0.0	Rep Stress Incr YES	WB 0.56	Horz(CT) 0.06 25 n/a n/a	
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 184 lb FT = 20%F, 11%E

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

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

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

WEBS 2x4 SP No.3(flat)

BOT CHORD

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

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

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

2-3=-1491/0, 3-4=-2414/0, 4-5=-2414/0, 5-6=-2597/0, 6-7=-2597/0, 7-8=-2597/0,

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

14-16=-668/787, 16-17=-1903/301, 17-18=-1903/301, 18-19=-2577/0, 19-20=-2577/0, 20-21=-2426/0, 21-22=-2426/0, 22-23=-1494/0

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

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

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

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

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

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

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

NOTES-

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



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

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Job	Truss	Truss Type	Qty	Ply	Lot 7 Magnolia Hills
J0724-4090	F02	Eleor	2	1	167767611
30724-4090	F02	Floor	3	'	Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:51:53 2024 Page 1 ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

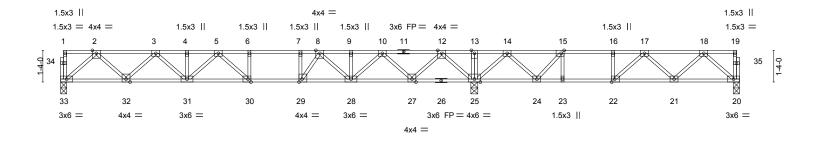
Structural wood sheathing directly applied or 6-0-0 oc purlins,

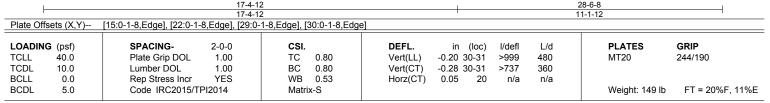
Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

0-1-8 HI-3-0

2-0-4 JP-9-0 1-0-4 2-0-0





TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

WEBS 2x4 SP No.3(flat)

(size) 33=0-3-0, 20=0-3-0, 25=0-3-8

Max Grav 33=870(LC 10), 20=551(LC 4), 25=1787(LC 1)

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

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

8-9=-2111/0, 9-10=-2111/0, 10-12=-826/0, 12-13=0/1418, 13-14=0/1418, 14-15=-650/619, 15-16=-1081/304, 16-17=-1081/304, 17-18=-883/0

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

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

20-21=0/581

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

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

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

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

NOTES-

REACTIONS.

BOT CHORD

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



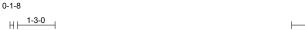


Job	Truss	Truss Type	Qty	Ply	Lot 7 Magnolia Hills	٦
10704 4000	F02	FLOOR			167767612	-
J0724-4090	F03	FLOOR	9	1	Job Reference (optional)	

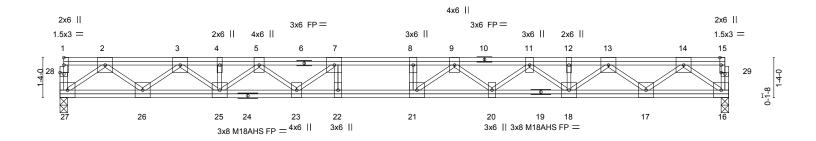
8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:51:54 2024 Page 1 ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

except end verticals.







-			22-3-0 22-3-0							
Plate Offsets (X,Y)	Plate Offsets (X,Y) [15:0-3-0,Edge], [28:0-1-8,0-0-8], [29:0-1-8,0-0-8]									
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES	GRIP			
TCLL 40.0	Plate Grip DOL 1.00	TC 0.29	Vert(LL) -0	.32 21	>820 480	MT20	244/190			
TCDL 10.0	Lumber DOL 1.00	BC 0.63	Vert(CT) -0	.44 21	>596 360	M18AHS	186/179			
BCLL 0.0	Rep Stress Incr YES	WB 0.62	Horz(CT) 0	0.05 16	n/a n/a					
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S				Weight: 177 lb	FT = 20%F, 11%E			

TOP CHORD

LUMBER-**BRACING-**

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

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

REACTIONS. (size) 27=0-3-0, 16=0-3-0

Max Grav 27=1203(LC 1), 16=1203(LC 1)

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

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

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

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

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

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

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

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 6x6 MT20 unless otherwise indicated. 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

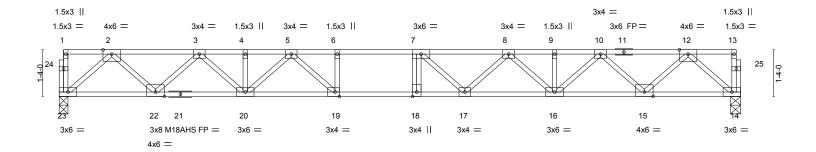




Job	Truss	Truss Type	Qty	Ply	Lot 7 Magnolia Hills	٦
			_		I67767613	١,
J0724-4090	F04	Floor	6	1		
					Job Reference (optional)	

8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:51:54 2024 Page 1 ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





			19-5-8	
Plate Offsets (X,Y)	[19:0-1-8,Edge]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.48	Vert(LL) -0.27 18 >842 480 MT20	244/190
TCDL 10.0 BCLL 0.0	Lumber DOL 1.00 Rep Stress Incr YES	BC 0.69 WB 0.54	Vert(CT) -0.37 18 >615 360 M18AHS Horz(CT) 0.06 14 n/a n/a	186/179
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S	Weight: 103 I	b FT = 20%F, 11%E

19-5-8

LUMBER-**BRACING-**

2x4 SP 2400F 2.0E(flat) 2x4 SP 2400F 2.0E(flat) TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD except end verticals.

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

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

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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1952/0, 3-4=-3301/0, 4-5=-3301/0, 5-6=-4143/0, 6-7=-4143/0, 7-8=-3998/0,

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

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

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

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

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

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

NOTES-

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





Job	Truss	Truss Type	Qty	Ply	Lot 7 Magnolia Hills
J0724-4090	F05	FLOOR	2	1	167767614
30724-4090	1503	FLOOR	2	'	Job Reference (optional)

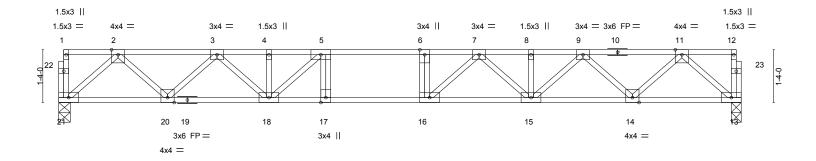
8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:51:54 2024 Page 1 ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

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

except end verticals.





	17-3-0 17-3-0			
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.47 BC 0.89 WB 0.45 Matrix-S	DEFL. in (loc) l/defl L/d Vert(LL) -0.23 15-16 >887 480 Vert(CT) -0.31 15-16 >663 360 Horz(CT) 0.05 13 n/a n/a	PLATES GRIP MT20 244/190 Weight: 94 lb FT = 20%F, 11%E

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

2x4 SP No.3(flat) WEBS

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

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

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

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

NOTES-

REACTIONS.

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



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

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



Job Truss Truss Type Qty Ply Lot 7 Magnolia Hills 167767615 F06 Floor J0724-4090 2 Job Reference (optional) 8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:51:55 2024 Page 1

Fayetteville, NC - 28314, Comtech, Inc.

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

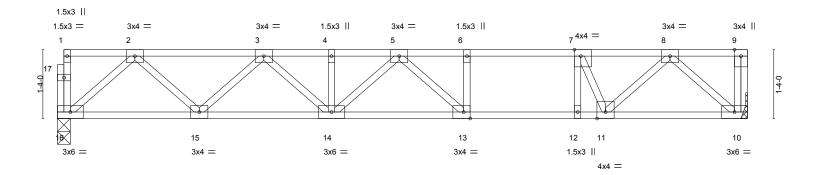
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



2-0-4

Scale = 1:22.3



						13-4-8					1
Plate Off	fsets (X,Y)	[7:0-1-8,Edge], [13:0-1-8,E	Edge]								
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.74	Vert(LL)	-0.19 13-14	>820	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.26 13-14	>603	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.02 10	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI	12014	Matrix	x-S					Weight: 72 lb	FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

13-4-8

LUMBER-

REACTIONS.

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

WEBS 2x4 SP No.3(flat)

(size) 16=0-3-0, 10=Mechanical Max Grav 16=716(LC 1), 10=722(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1220/0, 3-4=-1896/0, 4-5=-1896/0, 5-6=-1704/0, 6-7=-1704/0, 7-8=-1302/0 15-16=0/760, 14-15=0/1670, 13-14=0/1949, 12-13=0/1704, 11-12=0/1704, 10-11=0/716 BOT CHORD

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

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

NOTES-

WEBS

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



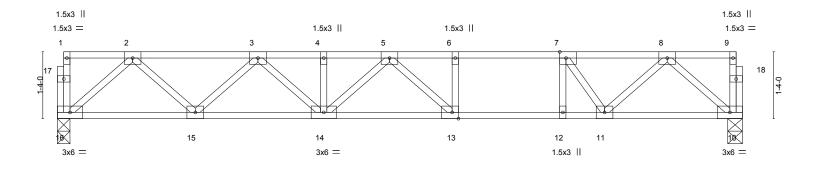


Job	Truss	Truss Type	Qty	Ply	Lot 7 Magnolia Hills
J0724-4090	F07	Floor	4	1	I67767616
30724-4090		Floor	4	'	Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:51:55 2024 Page 1 ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





			13-8-0	<u> </u>
Plate Offsets (X,Y)-	[7:0-1-8,Edge], [13:0-1-8,Edge]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.71	Vert(LL) -0.20 13-14 >823 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.71	Vert(CT) -0.26 13-14 >608 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.38	Horz(CT) 0.02 10 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S	, ,	Weight: 73 lb FT = 20%F, 11%E

13-8-0

LUMBER-**BRACING-**

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

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

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

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

2-3=-1255/0, 3-4=-1964/0, 4-5=-1964/0, 5-6=-1816/0, 6-7=-1816/0, 7-8=-1303/0 BOT CHORD 15-16=0/779, 14-15=0/1721, 13-14=0/2036, 12-13=0/1816, 11-12=0/1816, 10-11=0/736 $2-16=-1034/0,\ 2-15=0/662,\ 3-15=-648/0,\ 3-14=0/330,\ 5-13=-393/101,\ 7-12=0/417,$ WEBS

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

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.





Job Truss Truss Type Qty Ply Lot 7 Magnolia Hills 167767617 J0724-4090 F08 Floor Job Reference (optional)
8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:51:55 2024 Page 1

Comtech, Inc, Fayetteville, NC - 28314,

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

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

except end verticals.



0₇1-8 Scale = 1:16.9 1-1-0

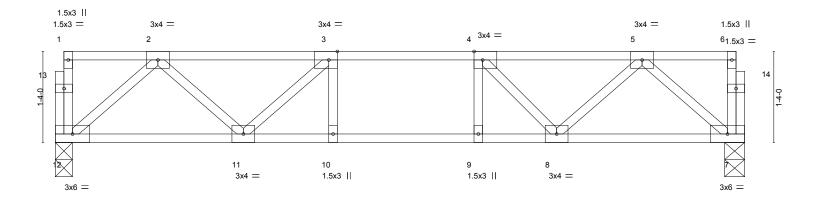


Plate Offsets (X,Y)--[3:0-1-8,Edge], [4:0-1-8,Edge] SPACING-**PLATES GRIP** LOADING (psf) CSI. DEFL. in (loc) I/defl L/d -0.05 10-11 TCLL 40.0 Plate Grip DOL 1.00 TC 0.26 Vert(LL) >999 480 244/190 MT20 **TCDL** 10.0 Lumber DOL 1.00 ВС 0.40 Vert(CT) -0.06 10 >999 360 BCLL 0.0 Rep Stress Incr YES WB 0.19 Horz(CT) 0.01 n/a n/a Code IRC2015/TPI2014 FT = 20%F. 11%E **BCDL** 5.0 Weight: 53 lb Matrix-S

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

REACTIONS. (size) 12=0-3-0, 7=0-3-8

Max Grav 12=535(LC 1), 7=535(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-833/0, 3-4=-1083/0, 4-5=-838/0

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

NOTES-

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



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Job Truss Truss Type Qty Ply Lot 7 Magnolia Hills 167767618 Floor J0724-4090 FG1 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:51:56 2024 Page 1 ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

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

except end verticals.

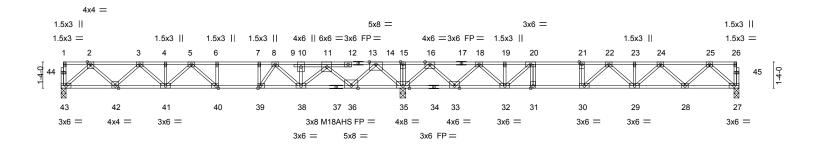
0-1-8

HI 1-3-0

2-0-4 0-9-0

2-2-12

0-1-8 Scale = 1:58.6



H			7-4-12						17-1-4		
Plate Off	sets (X,Y)	[39:0-1-8,Edge], [40:0-1-8	3,Edge]	_							
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.95	Vert(LL)	-0.23 29-30	>878	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.31 29-30	>648	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	NO	WB	0.62	Horz(CT)	0.06 27	n/a	n/a		
BCDL	5.0	Code IRC2015/TP	12014	Matrix	c-S					Weight: 187 lb	FT = 20%F, 11%E

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

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

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

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

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

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

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

8-10=-3016/0, 10-11=-3016/0, 11-14=-1021/0, 14-15=0/3063, 15-16=0/3063,

16-18=0/1580, 18-19=-1140/968, 19-20=-1140/968, 20-21=-2003/416, 21-22=-2003/416, 22-23=-2104/0, 23-24=-2104/0, 24-25=-1326/0

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

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

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

WEBS 2-43=-1373/0, 2-42=0/982, 3-42=-943/0, 3-41=0/646, 14-35=-2577/0, 14-36=0/2181, 11-36=-2209/0, 11-38=0/620, 5-41=-460/0, 5-40=-39/469, 8-38=-404/0, 8-39=0/599,

7-39=-391/0, 25-27=-1084/0, 25-28=0/710, 24-28=-695/0, 24-29=-73/378,

16-35=-1628/0, 16-33=0/1269, 18-33=-1212/0, 18-32=0/831, 19-32=0/283,

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

NOTES-

BOT CHORD

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x4 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 879 lb down at 13-6-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

"minimi August 23,2024

Continued on page 2

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

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



Job Truss Truss Type Qty Ply Lot 7 Magnolia Hills 167767618 Floor J0724-4090 FG1 Job Reference (optional) 8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:51:56 2024 Page 2

Comtech, Inc, Fayetteville, NC - 28314,

ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

Uniform Loads (plf) Vert: 27-43=-10, 1-26=-100 Concentrated Loads (lb) Vert: 11=-799(B)



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Lot 7 Magnolia Hills 167767619 J0724-4090 FG2 FLOOR GIRDER Job Reference (optional) 8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 09:51:56 2024 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 2-0-8 0-1-8 Scale = 1:10.8 3x6 II 3x6 II 3x6 II 2x6 II 2 3 1.5x3 || 7 3x6 =1.5x3 || 3x6 = Plate Offsets (X,Y)--[4:0-3-0,Edge], [9:0-1-8,0-0-8] LOADING (psf) SPACING-CSI. **DEFL** (loc) I/defl L/d **PLATES** GRIP TCLL 40.0 Plate Grip DOL 1.00 TC 0.09 Vert(LL) -0.01 6-7 >999 480 244/190 MT20 TCDL 10.0 Lumber DOL 1.00 ВС 0.24 Vert(CT) -0.02 6-7 >999 360 **BCLL** 0.0 Rep Stress Incr NO WB 0.31 Horz(CT)0.01 n/a n/a Code IRC2015/TPI2014 FT = 20%F, 11%E **BCDL** 5.0 Matrix-S Weight: 36 lb **BRACING-**TOP CHORD Structural wood sheathing directly applied or 5-3-8 oc purlins,

BOT CHORD

except end verticals.

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

LUMBER-

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

WEBS 2x4 SP No.3(flat)

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

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

TOP CHORD 2-3=-1036/0

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

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

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 650 lb down at 1-10-4, and 667 Ib down at 3-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 5-8=-10, 1-4=-100

Concentrated Loads (lb)

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



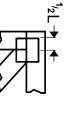
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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)

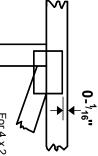


Symbols

PLATE LOCATION AND ORIENTATION



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



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

₹

connector plates required direction of slots in This symbol indicates the

* Plate location details available in MiTek software or upon request

PLATE SIZE

4 × 4

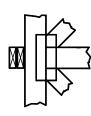
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



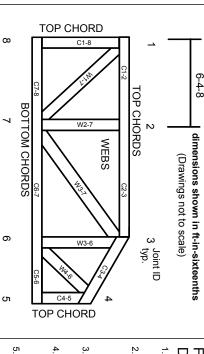
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

DSB-22:

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

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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MiTek



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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 5 Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

œ

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



Date: 9/13/2024 Input by: Neal Baggett

Job Name: 7 MAGNOLIA HILLS Project #:

Bearing Length

1-SPF 3.000"

2 - SPF 3.000"

End Grain

End Grain Dir.

Vert

Vert

Cap. React D/L lb

7018 / 5324

5588 / 3893

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

_evel: Level

Page 1 of 16

Const

Ld. Comb.

D+S

D+S

0

0

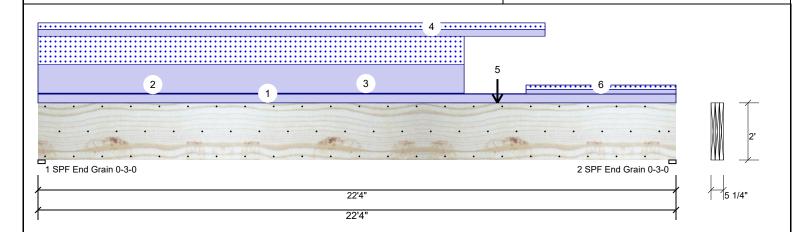
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0

Total Ld. Case

12342 L

9480 L



Reactions UNPATTERNED Ib (Uplift) Application: Direction Live Wind Type: Floor Brg Dead Snow Plies: 3 Design Method: ASD 112 7018 5324 Vertical 1 Moisture Condition: Dry **Building Code: IBC/IRC 2015** 2 Vertical 112 5588 3893 Deflection LL: 480 Load Sharing: Yes Deflection TL: 360 Deck: Not Checked Importance: Normal - II Temperature: Temp <= 100°F **Bearings**

Analysis Results

Member Information

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

Design Notes

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

8 Lateral slende	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	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL	
2	Tie-In Far	0-0-0 to 22-4-0	0-3-0	Far Face	15 PSF	40 PSF	0 PSF	0 PSF	0 PSF	FLOOR LOADING	
2	Tie-In Near	0-0-0 to 22-4-0	0-0-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	0 PSF	FLOOR LOADING	
3	Part. Uniform	0-0-0 to 14-11-0		Тор	392 PLF	0 PLF	392 PLF	0 PLF	0 PLF	ATRUSSES	

Continued on page 2...

Notes	Cilettiicais
Calculated Structured Designs is responsible only of the	Handling & Installation

Calculated Structure 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
- Damaged Beams must not be used

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

- 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

 Manufacturer Info

This design is valid until 6/28/2026

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



Continued from page 1

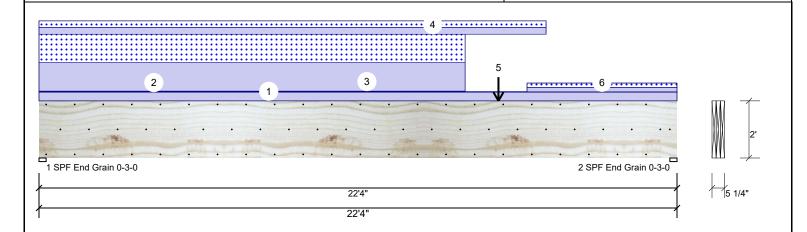
Client: Project: Address: Date: 9/13/2024 Input by:

Neal Baggett Job Name: 7 MAGNOLIA HILLS Page 2 of 16

Project #:

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

Level: Level



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

Notes

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 fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 6/28/2026

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

Manufacturer Info (800) 622-5850



9/13/2024 Input by: Neal Baggett Job Name: 7 MAGNOLIA HILLS

Project #:

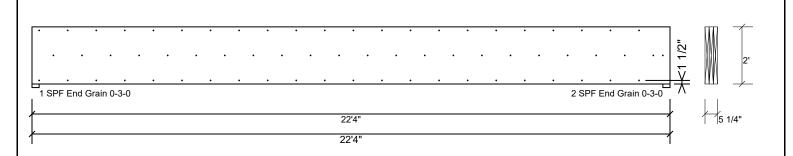
Kerto-S LVL FB₁

1.750" X 24.000"

3-Ply - PASSED

Level: Level

Page 3 of 16



Multi-Ply Analysis

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

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

Notes

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

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

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

For flat roofs provide proper drainage to prevent ponding

This design is valid until 6/28/2026

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

Manufacturer Info

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



9/13/2024 Input by:

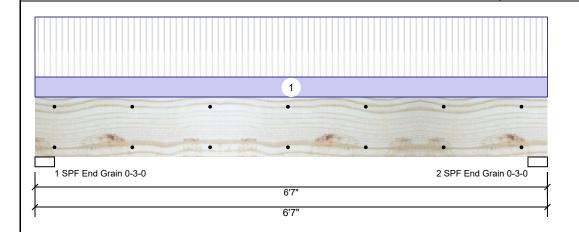
Neal Baggett Job Name: 7 MAGNOLIA HILLS

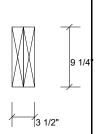
Project #:

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

Level: Level

Reactions UNPATTERNED Ib (Uplift)





Page 4 of 16

Member Information

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

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

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

Analysis Results

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

Bearings

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

Design Notes

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

Self Weight

- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

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

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

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

 2 Damaged Beams must not be used

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

This design is valid until 6/28/2026

7 PLF

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

Version 23.40.705 Powered by iStruct™ Dataset: 24041701.1529



Client: Date: 9/13/2024 Page 5 of 16 Project: Input by: Neal Baggett isDesign Address: Job Name: 7 MAGNOLIA HILLS Project #: 1.750" X 9.250" 2-Ply - PASSED Level: Level **Kerto-S LVL** DB₂ . 1 SPF End Grain 0-3-0 2 SPF End Grain 0-3-0 6'7' 6'7' Multi-Ply Analysis Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6". Capacity 0.0 PLF 163.7 PLF Yield Limit per Foot Yield Limit per Fastener 81.9 lb. См Yield Mode IV Edge Distance 1 1/2" Min. End Distance 3" Load Combination **Duration Factor** 1.00

For flat roofs provide proper drainage to prevent ponding

This design is valid until 6/28/2026

Manufacturer Info

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

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

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

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

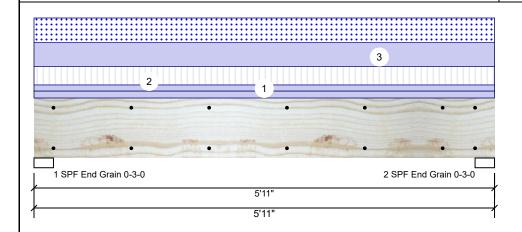


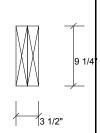
Date: 9/13/2024 Input by: Neal Baggett

Job Name: 7 MAGNOLIA HILLS Project #:

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

Level: Level





Page 6 of 16

Member Information

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

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

Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	932	1926	1240	0	0
2	Vertical	932	1926	1240	0	0

Analysis Results

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

Design Notes

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

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

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

Grain

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

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

Handling & Installation

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

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

This design is valid until 6/28/2026

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

Metsa Wood
301 Merritt 7 Building, 2nd Flo
Norwalk, CT 06851

Client: Date: 9/13/2024 Page 7 of 16 Project: Input by: Neal Baggett isDesign Address: Job Name: 7 MAGNOLIA HILLS Project #: 1.750" X 9.250" 2-Ply - PASSED Level: Level **Kerto-S LVL** HDR1 . 1 SPF End Grain 0-3-0 2 SPF End Grain 0-3-0 5'11" 5'11' Multi-Ply Analysis Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

rasterran pries asing E	TOWS OF TOU BOX Halls (TEONS) at
Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	163.7 PLF
Yield Limit per Fastener	81.9 lb.
CM	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

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

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

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

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

 3. Damaged Beams must not be used

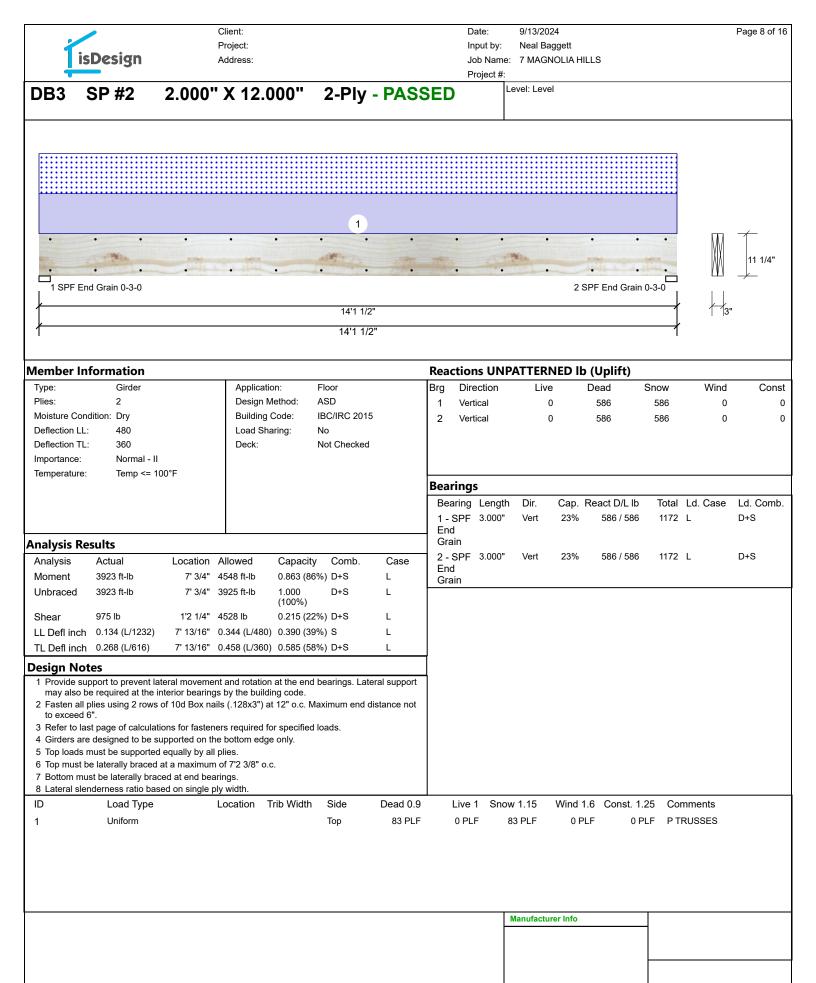
 4. Design assumes top edge is laterally restrained

 5. Provide lateral support at bearing points to avoid lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 6/28/2026

Manufacturer Info Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850

www.metsawood.com/us



This design is valid until 6/28/2026

	Client:		Date: 9/13/2024	Page 9 of 16
iaDanian	Project:		Input by: Neal Baggett	
isDesign	Address:		Job Name: 7 MAGNOLIA HILLS	
			Project #:	
DB3 SP #2	2.000" X 12.000"	2-Ply - PASSED	Level: Level	
				. □ /
• •	• •	• • •	• • •	11 1/4"
				√ ∭ 11 1/4"
	• • •	• • • •		
1 SPF End Grain 0-3-0			2 SPF End Grain 0-3-0	
		14'1 1/2"	1	 3"
 		14'1 1/2"		
•			· ·	
Multi-Ply Analysis				
Fasten all plies using 2 re	ows of 10d Box nails (.128x3")	at 12" o.c Maximum end di	stance not to exceed 6".	
Capacity	0.0 %			
_oad	0.0 PLF			
Yield Limit per Foot Yield Limit per Fastener	202.6 PLF 101.3 lb.			
CM	1			
Yield Mode	IV			
Edge Distance	1 1/2"			
Min. End Distance Load Combination	3"			
Duration Factor	1.00			
			Manufacturer Info	
			Manufacturer Info	
		This design is valid until 6/28/		
Version 23.40.705 Powered by iStruc	t™ Dataset: 24041701.1529		CSDI	RAW ESIGN



9/13/2024 Input by: Neal Baggett

Project #:

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

> Application: Design Method:

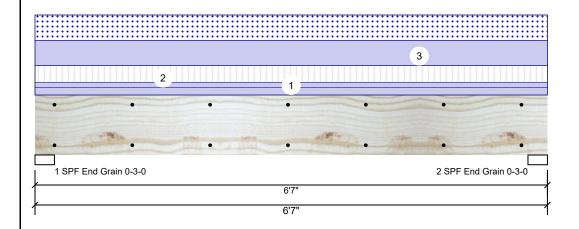
Building Code:

Load Sharing:

Deck:

Level: Level

Job Name: 7 MAGNOLIA HILLS

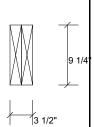


ASD

No

IBC/IRC 2015

Not Checked



Page 10 of 16

Member Information

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

Ш Temperature: Temp <= 100°F

Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	902	2097	1379	0	0
2	Vertical	902	2097	1379	0	0

Analysis Results

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

Design Notes

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

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

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

Grain

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

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

Handling & Installation

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

2 Damaged Beams must not be used

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

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 6/28/2026

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

2		Client: Project:			Date: Input by:	9/13/2024 Neal Baggett	Page 11 of 16
is	Design	Address:				7 MAGNOLIA HILLS	
HDR2	Kerto-S LV	L 1.750" X	9.250"	2-Ply - PAS		evel: Level	
•	•	•	•	• •		• =	
	_		_			•	9 1/4
1 SPF E	• End Grain 0-3-0	•	•	2 9	SPF End Grain	0-3-0	<u> </u>
			6'7" 6'7"				3 1/2"
1							
		of 10d Box nails (.128	8x3") at 12" c	o.c Maximum end o	distance no	t to exceed 6".	
apacity oad	0	.0 % .0 PLF					
ield Limit per F ield Limit per F M		63.7 PLF 1.9 lb.					
eld Mode dge Distance	IV						
lin. End Distan oad Combinati	ce 3						
Ouration Factor		.00					
N-4		chemicals		i. For flat roofs provide proper drai	nage to prevent	Manufacturer Info	
structural adequacy	of this component based on the	Handling & Installation		ponding		Metsä Wood 301 Merritt 7 Building, 2nd Floor	
responsibility of the o	I loadings shown. It is the customer and/or the contractor to lent suitability of the intended	2 Pofor to manufacturaria pr	oduct information ements, multi-ply			Norwalk, CT 06851 (800) 622-5850	
application, and to ver Lumber	ify the dimensions and loads.	approvals 3. Damaged Beams must not be use 4. Design assumes top edge is later	ed ally restrained		,	www.metsawood.com/us	
Dry service condit LVL not to be treat	ions, unless noted otherwise ited with fire retardant or corrosive	E Provide lateral support at beari	ing points to avoid	This design is valid until 6/2	08/2026		

This design is valid until 6/28/2026

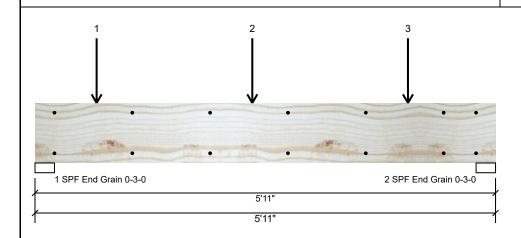


Date: 9/13/2024 Input by: Neal Baggett

Job Name: 7 MAGNOLIA HILLS Project #:

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

Level: Level



Application: Design Method:

Building Code:

Load Sharing:

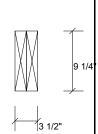
Deck:

ASD

No

IBC/IRC 2015

Not Checked



Page 12 of 16

Member Information

Туре:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	360
Importance:	Normal

- II Temperature: Temp <= 100°F

Reactions UNPATTERNED Ib (Uplift)

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

Bearings

				React D/L Ib			La. Comb
1 - SPF End Grain	3.000"	Vert	33%	1472 / 1451	2923	L	D+S
2 - SPF End Grain	3.000"	Vert	20%	871 / 850	1721	L	D+S

Analysis Results

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

Design Notes

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

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

Continued on page 2...

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

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

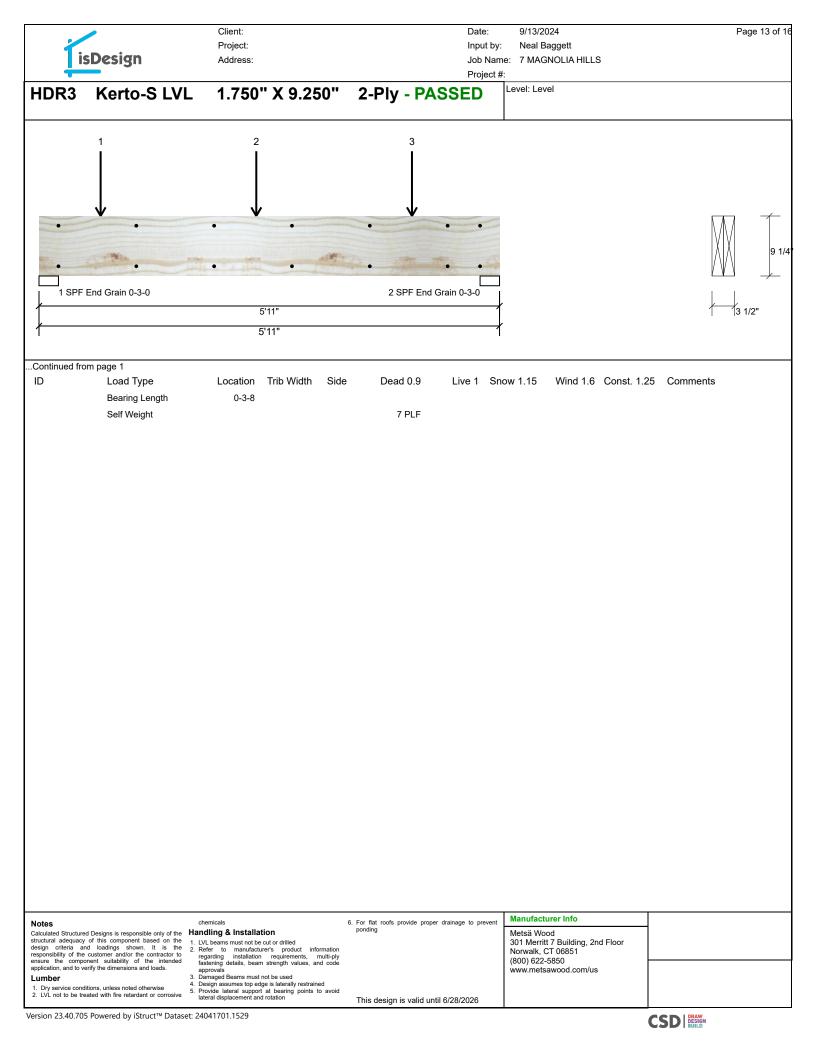
 2 Damaged Beams must not be used

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

This design is valid until 6/28/2026

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

Manufacturer Info



Client: Date: 9/13/2024 Page 14 of 16 Project: Input by: Neal Baggett isDesign Address: Job Name: 7 MAGNOLIA HILLS Project #: 1.750" X 9.250" 2-Ply - PASSED Level: Level **Kerto-S LVL** HDR3 . 1 SPF End Grain 0-3-0 2 SPF End Grain 0-3-0 5'11" 5'11' Multi-Ply Analysis Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6". Capacity 0.0 PLF 163.7 PLF Yield Limit per Foot Yield Limit per Fastener 81.9 lb. См Yield Mode IV Edge Distance 1 1/2" Min. End Distance 3" Load Combination **Duration Factor** 1.00

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 fastening details, beam strength values, and code approvals

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

 5. Provide lateral support at bearing points to avoid lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 6/28/2026

(800) 622-5850

Manufacturer Info

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



Date: 9/13/2024 Input by:

Neal Baggett Job Name: 7 MAGNOLIA HILLS Page 15 of 16

995 / 539

995 / 539

1534 L

1534 L

Const

Ld. Comb.

D+S

D+S

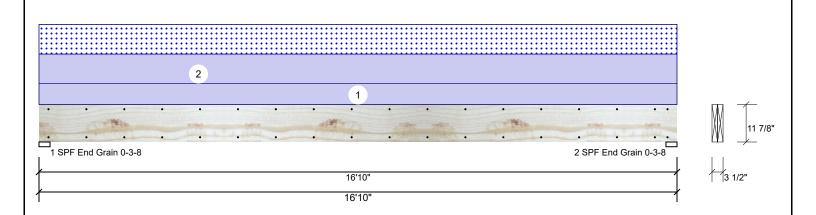
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Project #:

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

Level: Level



Member Inform	nation			Rea	ctions UNP	ATTERN	ED lb (Uplif	ft)	
Type:	Girder	Application:	Floor	Brg	Direction	Live	Dead	Snow	Wind
Plies:	2	Design Method:	ASD	1	Vertical	0	995	539	0
Moisture Condition	: Dry	Building Code:	IBC/IRC 2015	2	Vertical	0	995	539	0
Deflection LL:	480	Load Sharing:	No						
Deflection TL:	360	Deck:	Not Checked						
Importance:	Normal - II								
Temperature:	Temp <= 100°F								
				Bea	rings				
				Bea	aring Length	Dir.	Cap. React D	/L lb Total	Ld. Case

Ana	lysis	Results	ò
-----	-------	---------	---

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	6108 ft-lb	8'5"	22897 ft-lb	0.267 (27%)	D+S	L
Unbraced	6108 ft-lb	8'5"	6109 ft-lb	1.000 (100%)	D+S	L
Shear	1309 lb	1'3 3/8"	10197 lb	0.128 (13%)	D+S	L
LL Defl inch	0.112 (L/1755)	8'5 1/16"	0.409 (L/480)	0.273 (27%)	S	L
TL Defl inch	0.319 (L/617)	8'5 1/16"	0.546 (L/360)	0.584 (58%)	D+S	L

Design Notes

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

8 Lateral slen	derness ratio based on sing	le 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	45 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL	
2	Uniform			Тор	64 PLF	0 PLF	64 PLF	0 PLF	0 PLF	P2	
	Self Weight				9 PLF						

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

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

 2 Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- - This design is valid until 6/28/2026
- For flat roofs provide proper drainage to prevent ponding

Manufacturer Info Metsä Wood Norwalk, CT 06851

301 Merritt 7 Building, 2nd Floor (800) 622-5850

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1-SPF 3.500"

End Grain 2 - SPF 3.500"

End Grain Vert

Vert

15%

15%

Client: Date: 9/13/2024 Page 16 of 16 Project: Input by: Neal Baggett isDesign Address: Job Name: 7 MAGNOLIA HILLS Project #: 1.750" X 11.875" 2-Ply - PASSED Level: Level **Kerto-S LVL GDH** 2 SPF End Grain 0-3-8 1 SPF End Grain 0-3-8 16'10" 16'10" Multi-Ply Analysis Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6". Capacity 0.0 PLF 163.7 PLF Yield Limit per Foot Yield Limit per Fastener 81.9 lb. См Yield Mode IV Edge Distance 1 1/2" Min. End Distance 3" Load Combination **Duration Factor** 1.00

Notes

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

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

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

For flat roofs provide proper drainage to prevent ponding

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

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