

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0722-3740
Precision/Lot 25 Liberty Meadows/Harnet

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

Pages or sheets covered by this seal: I56905190 thru I56905220

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

North Carolina COA: C-0844



March 1, 2023

Gilbert, Eric

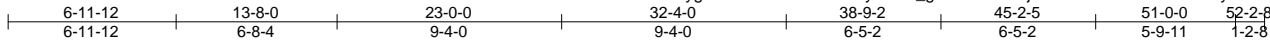
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which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

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 25 Liberty Meadows/Harnet	156905190
J0722-3740	A01-GE	GABLE	1	1	Job Reference (optional)	

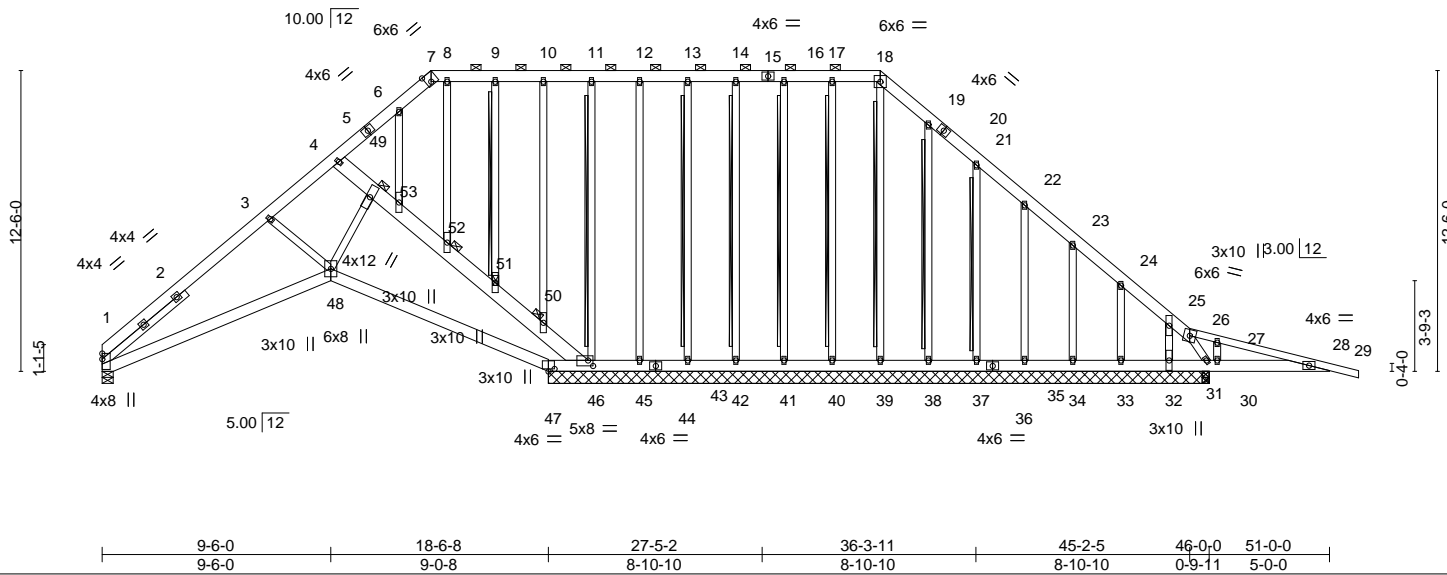
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 15:24:20 2023 Page 1

ID:52SvYgMJAaHxrWtaExlrbuZyFiSD-_gVhEo8aDA0j2WkE7?EnBneacDVOlb7ylzfVAgZjv



Scale: 1/8"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.59	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.33	Vert(LL) -0.15 48 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.67	Vert(CT) -0.29 1-48 >824 240		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Horz(CT) 0.26 31 n/a n/a		
			Wind(LL) 0.16 48 >999 240	Weight: 537 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 26-29: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-8-12 oc purlins, except
BOT CHORD 2x6 SP No.1	2-0-0 oc purlins (6-0-0 max.): 7-18.
WEBS 2x4 SP No.2 *Except* 4-46: 2x8 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 30-31,28-30.
OTHERS 2x4 SP No.2	WEBS T-Brace: 2x4 SPF No.2 - 18-39, 17-40, 16-41, 14-42, 13-43, 11-46, 9-51, 19-38, 21-37
SLIDER Left 2x4 SP No.2 4-7-4	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): 49, 50, 51, 52

REACTIONS.	JOINTS
All bearings 27-5-8 except (jt=length) 1=0-5-8, 31=0-3-8, 31=0-3-8, 31=0-3-8. (lb) - Max Horz 1=376(LC 10)	
Max Uplift All uplift 100 lb or less at joint(s) 40, 41, 42, 43, 38 except 1=158(LC 12), 46=249(LC 9), 45=239(LC 3), 37=122(LC 13), 35=112(LC 13), 34=100(LC 13), 33=173(LC 13), 32=1258(LC 1), 31=-1061(LC 9)	
Max Grav All reactions 250 lb or less at joint(s) 39, 40, 41, 42, 43, 38, 37, 35, 34 except 1=838(LC 23), 46=1176(LC 1), 33=508(LC 1), 32=947(LC 9), 31=1689(LC 1), 31=1689(LC 1)	

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 1-3=-1423/398, 3-4=-1199/391, 4-6=-507/243, 6-7=-225/295, 7-8=-275/261, 8-9=-275/260, 9-10=-275/261, 10-11=-275/261, 11-12=-275/261, 12-13=-275/261, 13-14=-275/261, 14-16=-275/261, 16-17=-275/261, 17-18=-275/260, 18-19=-318/287, 19-21=-257/204, 24-25=-332/180, 25-26=-537/387, 26-27=-720/727, 27-28=-746/732	
BOT CHORD 1-48=-404/1224, 47-48=-197/879, 46-47=-172/795, 45-46=-155/334, 43-45=-155/334, 42-43=-155/334, 41-42=-155/334, 40-41=-155/334, 39-40=-155/334, 38-39=-155/334, 37-38=-155/334, 35-37=-155/334, 34-35=-155/334, 33-34=-155/334, 32-33=-155/334, 31-32=-155/334, 30-31=-681/777, 28-30=-681/777	
WEBS 3-48=-47/279, 48-49=-232/939, 4-49=-973/296, 49-53=-1183/348, 52-53=-854/302, 51-52=-996/290, 50-51=-974/296, 46-50=-838/271, 12-45=-41/250, 11-46=-833/336, 6-53=-72/521, 24-33=-379/322, 25-32=-680/901, 26-31=-1358/890	

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
- Confirm adequate drainage to prevent water ponding.



March 1, 2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 25 Liberty Meadows/Harnet	I56905190
J0722-3740	A01-GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 15:24:20 2023 Page 2
ID:52SygMJAaHxrWTaExlrBuZyFiSD-_gVhEo8aDA0j2WkE7?EnBneacDVOlb7ylzfhVAzgZjv

NOTES-

- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 40, 41, 42, 43, 38 except (jt=lb) 1=158, 46=249, 45=239, 37=122, 35=112, 34=100, 33=173, 32=1258, 31=1061.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 13) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

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

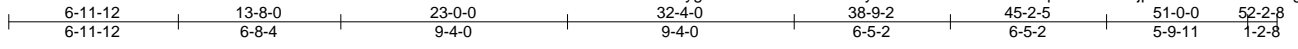
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job J0722-3740	Truss A02	Truss Type PIGGYBACK BASE	Qty 4	Ply 1	Precision/Lot 25 Liberty Meadows/Harnet I56905191
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Scale = 1:94.8

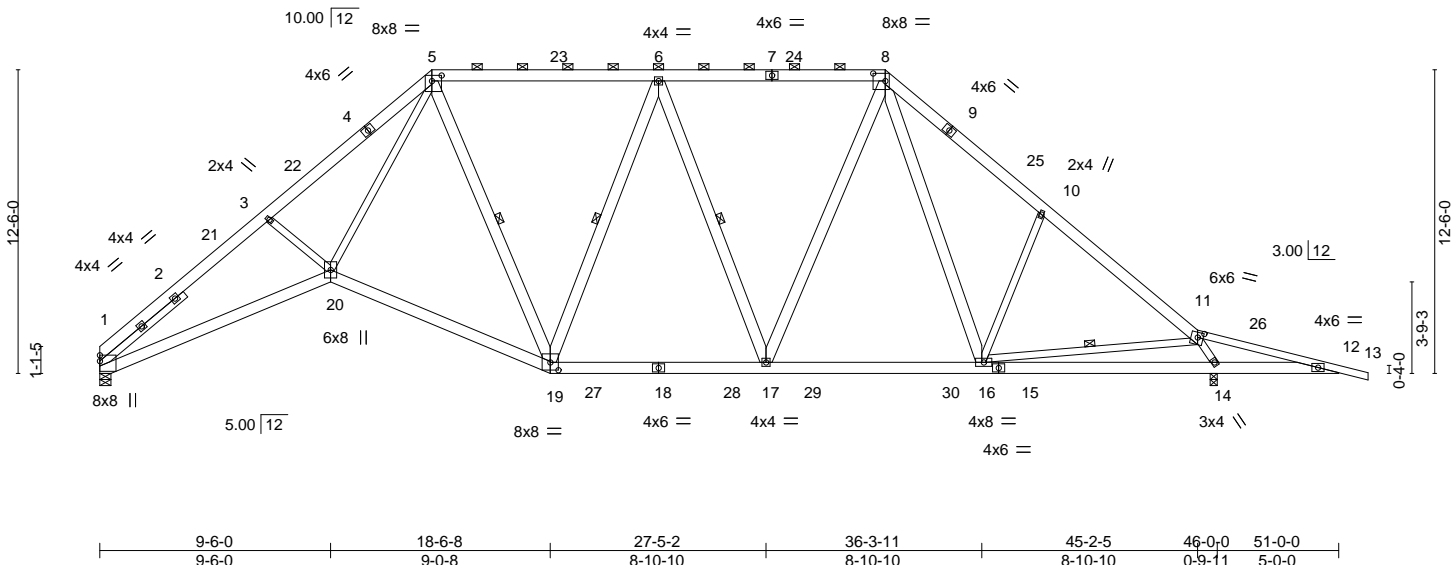


Plate Offsets (X, Y)--	[5:0-4-12,0-2-12], [8:0-6-0,0-3-12], [11:0-2-12,0-2-8], [19:0-4-0,0-3-13]
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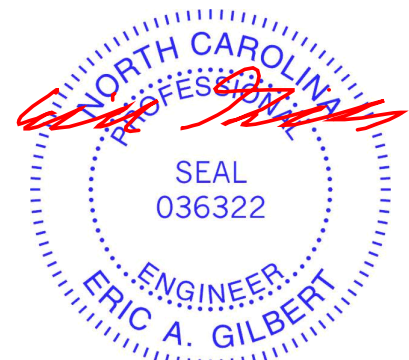
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.97	Vert(LL)	-0.19 17-19	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.54	Vert(CT)	-0.35 19-20	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.23 14	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.11 19-20	>999	240	Weight: 455 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 11-13: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-6-6 max.): 5-8.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-14.
WEBS 2x6 SP No.1 *Except* 3-20,5-20,10-16,11-16,11-14: 2x4 SP No.2	WEBS 1 Row at midpt 5-19, 6-19, 6-17, 11-16
SLIDER Left 2x4 SP No.2 4-7-4	

REACTIONS.	(size)
1=0-5-8, 14=0-3-8	
Max Horz 1=-295(LC 10)	
Max Uplift 1=-42(LC 12), 14=-106(LC 13)	
Max Grav 1=1804(LC 1), 14=2345(LC 2)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-3=-3970/778, 3-5=-3710/795, 5-6=-1744/559, 6-8=-1812/548, 8-10=-2282/601, 10-11=-2382/449, 11-12=-1044/999
BOT CHORD	1-20=-458/3241, 19-20=-111/1986, 17-19=-125/1871, 16-17=-38/1543, 14-16=0/718, 12-14=-933/1071
WEBS	3-20=-231/268, 5-20=-297/2453, 5-19=-310/141, 6-19=-436/212, 6-17=-427/232, 8-17=-120/762, 8-16=-126/580, 10-16=-521/326, 11-16=-746/1366, 11-14=-2470/861

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-2 to 5-2-10, Interior(1) 5-2-10 to 13-8-0, Exterior(2) 13-8-0 to 18-8-9, Interior(1) 18-8-9 to 32-4-0, Exterior(2) 32-4-0 to 37-4-8, Interior(1) 37-4-8 to 52-2-8 zone; cantilever right exposed ;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.
 - 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.
 - Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 14=106.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Precision/Lot	25 Liberty Meadows/Harnet	156905192
J0722-3740	A03	PIGGYBACK BASE	3	1	Job Reference (optional)		

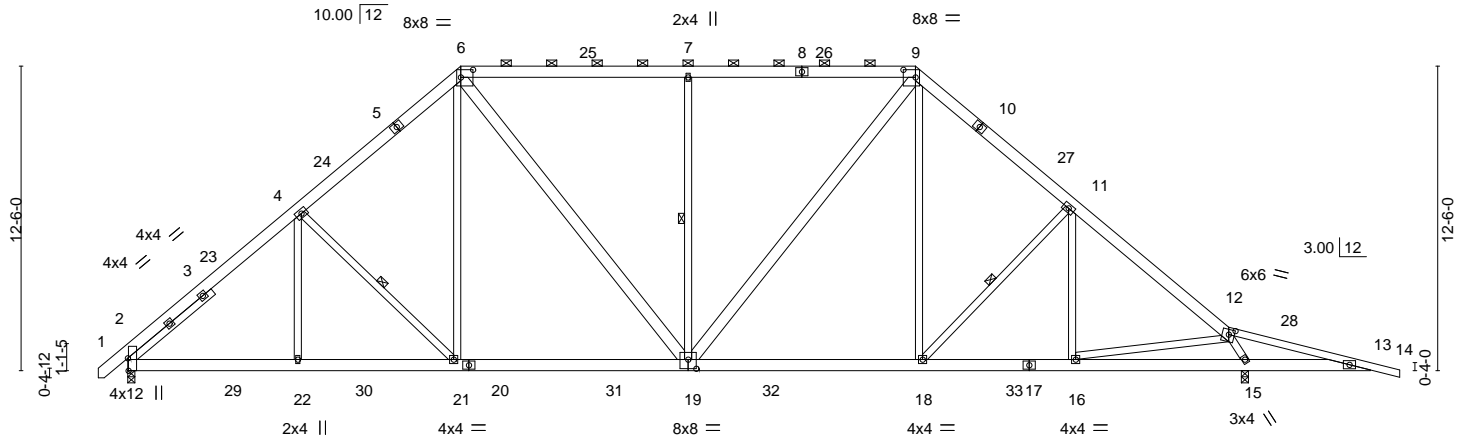
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ID:52SgMJAAHxrWTaExlrbuZyFiSD-OFAqsqBTW5OHV_Spo7nUpPG7sQVcy?LP_wtL6VzgZjs

1-2-8	6-11-12	13-8-0	23-0-0	32-4-0	38-9-2	45-2-5	51-0-0	52-2-8
1-2-8	6-11-12	6-8-4	9-4-0	9-4-0	6-5-2	6-5-2	5-9-11	1-2-8

Scale = 1:94.6



6-11-12	13-8-0	23-0-0	32-4-0	38-9-2	45-2-5	45-10-4	51-0-0
6-11-12	6-8-4	9-4-0	9-4-0	6-5-2	6-5-2	0-7-15	5-1-12

Plate Offsets (X, Y)-- [2:0-6-3,Edge], [6:0-6-0,0-3-12], [9:0-6-0,0-3-12], [12:0-2-12,0-2-8], [19:0-4-0,0-4-8]

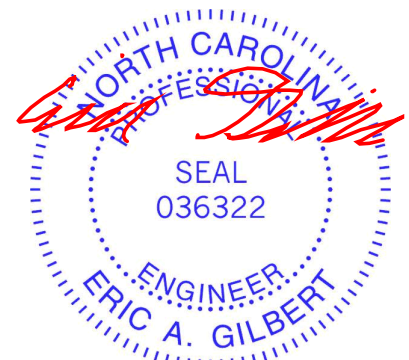
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.40	Vert(LL)	-0.14 19-21	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.49	Vert(CT)	-0.23 19-21	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.51	Horz(CT)	0.07 15	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.04 19	>999	240	Weight: 442 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 12-14: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-4-8 oc purlins, except 2-0-0 oc purlins (5-2-0 max.): 6-9.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.2 *Except* 6-19,9-19: 2x6 SP No.1	WEBS 6-0-0 oc bracing: 13-15. 1 Row at midpt 4-21, 7-19, 11-18
SLIDER Left 2x4 SP No.2 4-5-13	

REACTIONS. (size) 2=0-3-8, 15=0-3-8
 Max Horz 2=-296(LC 10)
 Max Uplift 2=-58(LC 12), 15=-107(LC 13)
 Max Grav 2=2148(LC 2), 15=2458(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2817/519, 4-6=-2345/593, 6-7=-2056/592, 7-9=-2057/593, 9-11=-2294/552,
 11-12=-2417/388, 12-13=-1018/1031
 BOT CHORD 2-22=-216/2111, 21-22=-216/2111, 19-21=-56/1752, 18-19=-30/1670, 16-18=-138/1807,
 15-16=0/724, 13-15=-965/1046
 WEBS 4-22=0/345, 4-21=-499/245, 6-21=-76/734, 6-19=-176/605, 7-19=-628/303,
 9-19=-191/694, 9-18=-40/670, 11-18=-441/184, 11-16=-204/263, 12-16=-698/1407,
 12-15=-2565/820

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-1 to 3-11-8, Interior(1) 3-11-8 to 13-8-0, Exterior(2) 13-8-0 to 18-8-9, Interior(1) 18-8-9 to 32-4-0, Exterior(2) 32-4-0 to 37-4-8, Interior(1) 37-4-8 to 52-2-8 zone; cantilever right exposed ;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.
 - All plates are 4x6 MT20 unless otherwise indicated.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 15=107.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 1, 2023

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Job J0722-3740	Truss A04	Truss Type PIGGYBACK BASE	Qty 1	Ply 2	Precision/Lot 25 Liberty Meadows/Harnet I56905193
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Comtech, Inc. Fayetteville, NC - 28314,

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ID:52SygMJAaHxrWtaExlrbuZyFISD-KelaHWCj2je?8HcCvYyquuqLVZE5UQwhiREMSAOzgZjq

1-2-8	6-11-12	13-8-0	23-0-0	32-4-0	38-9-2	45-2-5	51-0-0	52-2-8
1-2-8	6-11-12	6-8-4	9-4-0	9-4-0	6-5-2	6-5-2	5-9-11	1-2-8

Scale = 1:94.6

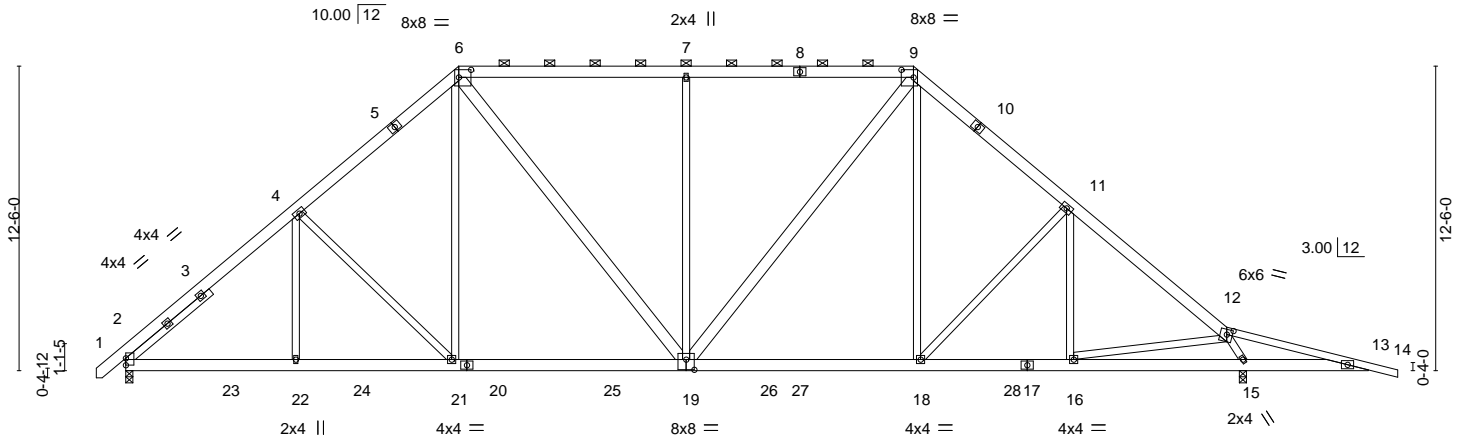


Plate Offsets (X, Y)--	[6:0-6-0,0-3-12], [9:0-6-0,0-3-12], [12:0-2-12,0-2-8], [19:0-4-0,0-5-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.26	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.84	Vert(LL) -0.24 18-19 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.33	Vert(CT) -0.42 18-19 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.04 15 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.15 18-19 >999 240	Weight: 883 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 12-14: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-9.
BOT CHORD 2x6 SP 2400F 2.0E *Except* 19-20: 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-15.
WEBS 2x4 SP No.2 *Except* 6-19,9-19: 2x6 SP No.1	
SLIDER Left 2x4 SP No.2 4-5-13	

REACTIONS. (size) 2=0-3-8, 15=0-3-8
 Max Horz 2=-296(LC 25)
 Max Uplift 2=-142(LC 8), 15=-231(LC 9)
 Max Grav 2=2762(LC 2), 15=3369(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-3719/204, 4-6=-3216/271, 6-7=-3309/301, 7-9=-3309/301, 9-11=-3795/345,
 11-12=-3628/216, 12-13=-360/924
 BOT CHORD 2-22=-230/2664, 21-22=-230/2665, 19-21=-155/2410, 18-19=-73/2811, 16-18=-44/2749,
 15-16=-61/1132, 13-15=-861/383
 WEBS 4-22=0/378, 4-21=-487/214, 6-21=-133/748, 6-19=-305/1546, 7-19=-612/232,
 9-19=-209/876, 9-18=-151/1358, 11-18=-358/307, 11-16=-586/169, 12-16=-189/1796,
 12-15=-3495/324

- NOTES-**
- 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, 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 - 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.
 - Unbalanced roof live loads have been considered for this design.
 - 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are 4x6 MT20 unless otherwise indicated.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=142, 15=231.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 1, 2023

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job J0722-3740	Truss A04	Truss Type PIGGYBACK BASE	Qty 1	Ply 2	Precision/Lot 25 Liberty Meadows/Harnet I56905193
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 15:24:25 2023 Page 2
ID:52SygMJAaHxrWTaExlrbuZyFISD-KelaHWCj2je?8HcCvYquuqLVZE5UQwhiREMSAOzgZjq

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1525 lb down and 217 lb up at 27'-6"-0 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: 1-6=-60, 6-9=-60, 9-12=-60, 12-14=-60, 2-13=-20
Concentrated Loads (lb)
Vert: 27=-1381(B)

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job J0722-3740	Truss A05	Truss Type PIGGYBACK BASE	Qty 3	Ply 1	Precision/Lot 25 Liberty Meadows/Harnet I56905194
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 15:24:26 2023 Page 1

ID:52SygMJAAHxrwTtaExlrbuZyFiSD-oqszUsDLp0msmRBOTGLBR2ufGeZe9Fsrqu6?iqzgzJp

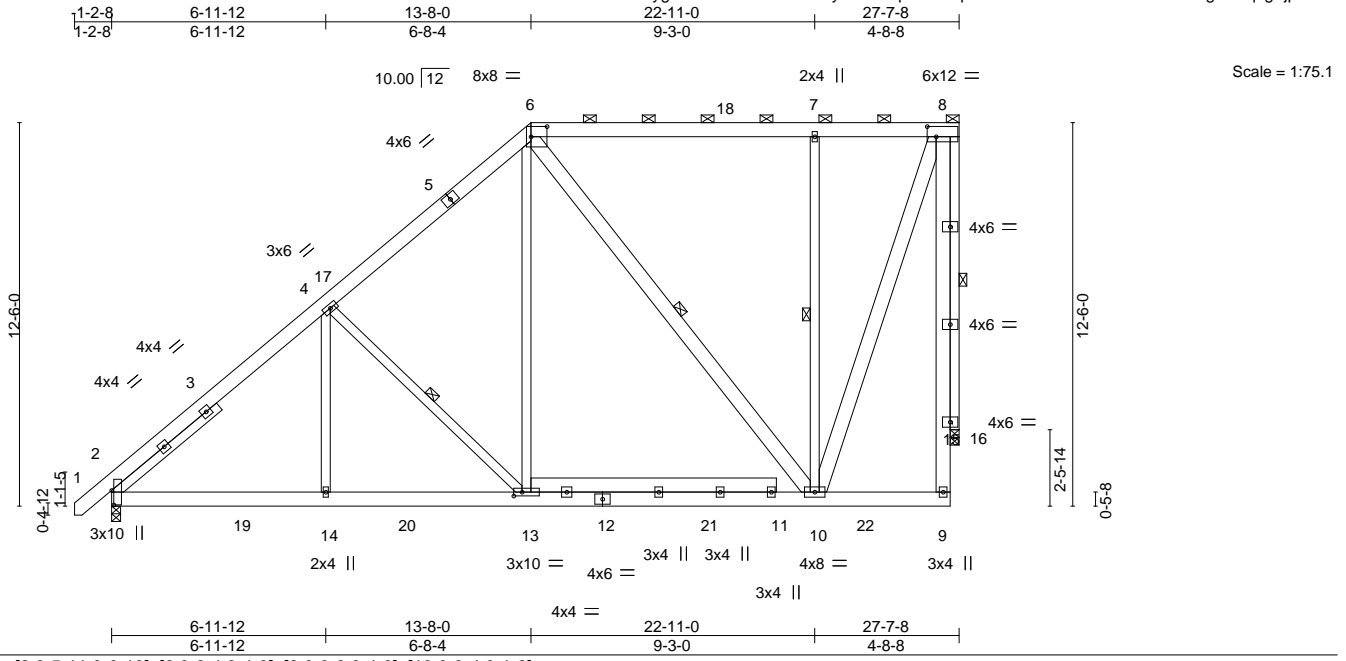


Plate Offsets (X,Y)-- [2:0-5-11,0-0-13], [6:0-6-4,0-4-0], [8:0-3-8,0-4-0], [13:0-3-4,0-1-8]

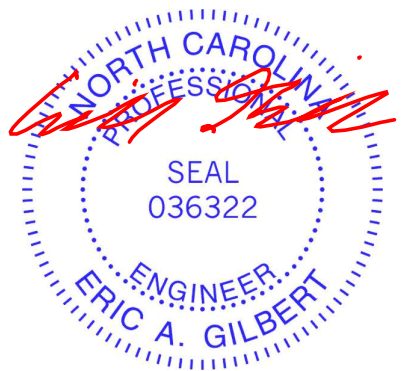
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.33	Vert(LL) -0.06 10-13 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.27	Vert(CT) -0.09 10-13 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.84	Horz(CT) 0.03 16 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.02 10-13 >999 240	Weight: 328 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 8-9,6-10,8-10: 2x6 SP No.1	WEBS 1 Row at midpt 4-13, 6-10, 7-10, 8-16
OTHERS 2x4 SP No.2	
SLIDER Left 2x4 SP No.2 4-5-13	

REACTIONS. (size) 2=0-3-8, 16=0-3-8
 Max Horz 2=400(LC 12)
 Max Uplift 2=-6(LC 12), 16=-142(LC 9)
 Max Grav 2=1353(LC 19), 16=1264(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1596/162, 4-6=-1124/234, 6-7=-441/128, 7-8=-440/129
 BOT CHORD 2-14=-464/1216, 13-14=-464/1216, 10-13=-273/794
 WEBS 4-14=0/386, 4-13=-579/272, 6-13=-92/784, 6-10=-623/234, 7-10=-515/269, 8-10=-358/1207, 8-16=-1265/335

- 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) -1-1-1 to 3-3-12, Interior(1) 3-3-12 to 13-8-0, Exterior(2) 13-8-0 to 19-10-11, Interior(1) 19-10-11 to 27-1-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Provide adequate drainage to prevent water ponding.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 16=142.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

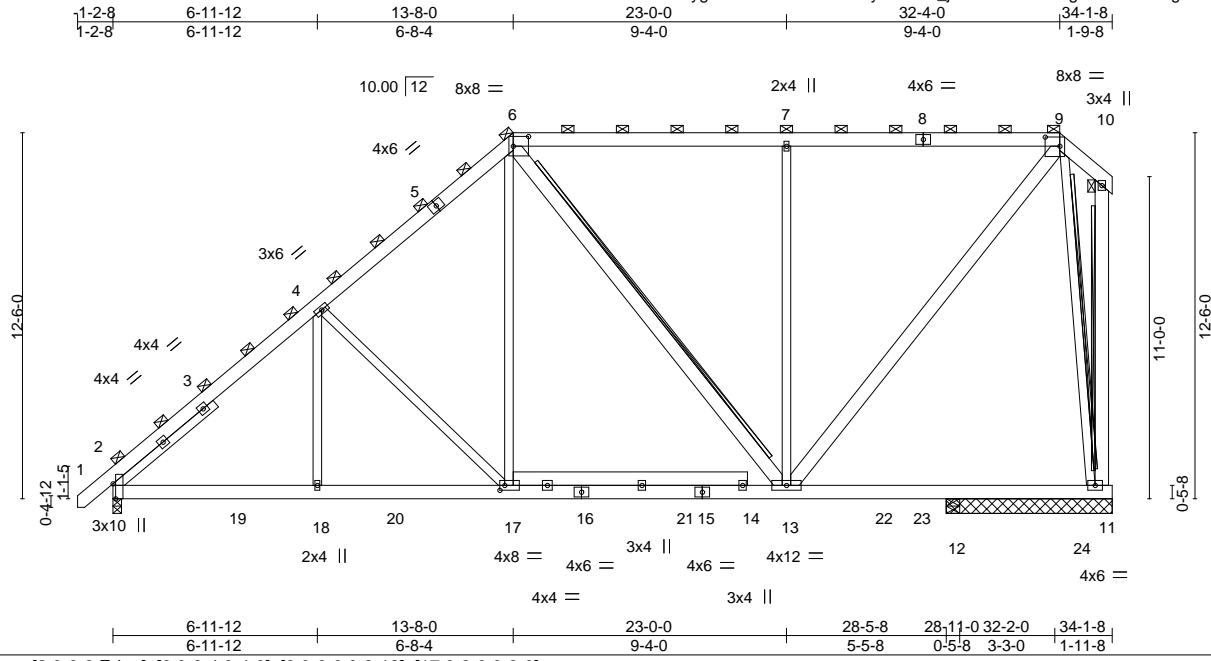


Job J0722-3740	Truss A06	Truss Type PIGGYBACK BASE	Qty 1	Ply 2	Precision/Lot 25 Liberty Meadows/Harnet I56905195
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 15:24:28 2023 Page 1

ID:52SgMJAAhXrWtaExlrbuZyFISD-ID_jvXFckE0a?ILnbgNWTzzZRgEgdBH87Cb6nizgZjn



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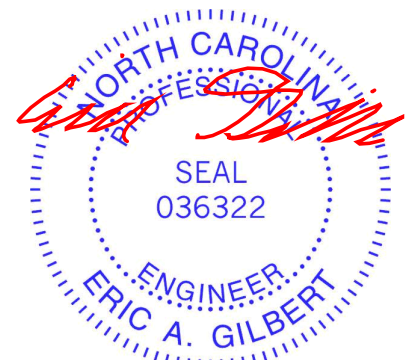
LOADING (psf)	SPACING-	4-2-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.47	Vert(LL)	-0.08 13-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.36	Vert(CT)	-0.13 13-17	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.72	Horz(CT)	0.03 11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.03 13-17	>999	240	Weight: 735 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-8-0).
BOT CHORD 2x6 SP No.1 *Except* 11-15: 2x6 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 6-13,9-13,10-11: 2x6 SP No.1	WEBS T-Brace: 2x4 SPF No.2 - 10-11 2x6 SPF No.2 - 6-13, 9-11
SLIDER Left 2x4 SP No.2 4-5-13	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.

REACTIONS. (size) 2=0-3-8, 11=5-8-0, 12=0-5-8
 Max Horz 2=780(LC 8)
 Max Uplift 2=95(LC 8), 11=-371(LC 5), 12=-178(LC 5)
 Max Grav 2=3350(LC 2), 11=2836(LC 2), 12=2968(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-4221/122, 4-6=-3256/309, 6-7=-2138/316, 7-9=-2136/317
 BOT CHORD 2-18=-601/3119, 17-18=-601/3119, 13-17=-336/2319, 12-13=-67/361, 11-12=-67/361
 WEBS 4-18=0/787, 4-17=-1152/439, 6-17=-126/1639, 6-13=-750/294, 7-13=-1348/472, 9-13=-413/2900, 9-11=-2863/546

- NOTES-**
- 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 0-4-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 - 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.
 - Unbalanced roof live loads have been considered for this design.
 - 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
 - Provide adequate drainage to prevent water ponding.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 11=371, 12=178.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2422 lb down and 353 lb up at 27-6-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



March 1, 2023

LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job J0722-3740	Truss A06	Truss Type PIGGYBACK BASE	Qty 1	Ply 2	Precision/Lot 25 Liberty Meadows/Harnet I56905195 Job Reference (optional)
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 15:24:28 2023 Page 2
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LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-125, 6-9=-125, 9-10=-125, 2-11=-42
Concentrated Loads (lb)
Vert: 23=-2176(F)

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

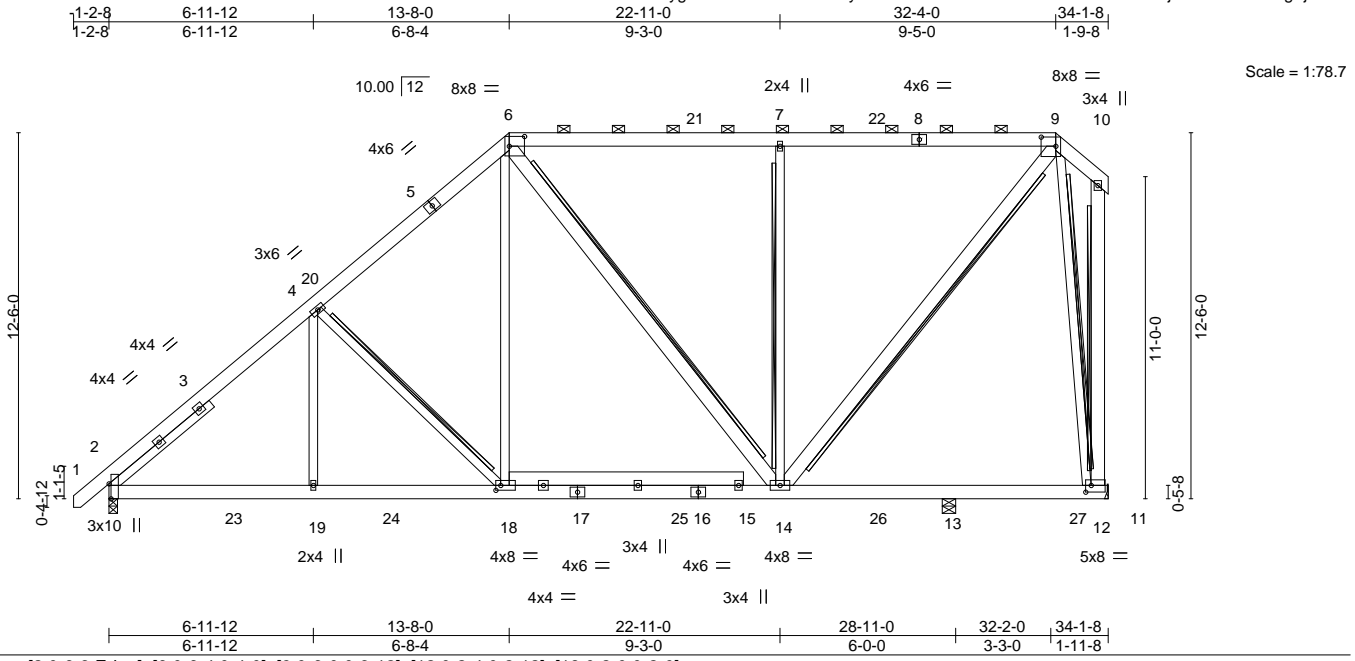
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job J0722-3740	Truss A07	Truss Type PIGGYBACK BASE	Qty 2	Ply 1	Precision/Lot 25 Liberty Meadows/Harnet I56905196
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Comtech, Inc. Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 15:24:30 2023 Page 1
 ID:52SgMJAAhXrWTaExlrBuZyFiSD-hb6TKDGssFGIF2V9i5Q7bu2KwFwj52DRbW4DrbzgZj



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 0.41	Vert(LL)	-0.08 14-18	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.33	Vert(CT)	-0.13 14-18	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.95	Horz(CT)	0.03 12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.03 14-18	>999	240	Weight: 367 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-7-12 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-9.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except*	WEBS T-Brace: 2x4 SPF No.2 - 4-18, 7-14, 9-14, 10-12, 9-12
SLIDER 6-14,9-14,10-12: 2x6 SP No.1	2x6 SPF No.2 - 6-14
Left 2x4 SP No.2 4-5-13	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.

REACTIONS. (size) 2=0-3-8, 12=Mechanical, 13=0-5-8
 Max Horz 2=374(LC 12)
 Max Uplift 2=-38(LC 12), 12=-170(LC 9)
 Max Grav 2=1565(LC 19), 12=1331(LC 2), 13=420(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1937/311, 4-6=-1479/387, 6-7=-901/337, 7-9=-900/338
 BOT CHORD 2-19=-523/1451, 18-19=-523/1451, 14-18=-338/1048
 WEBS 4-19=0/375, 4-18=-554/262, 6-18=-91/784, 6-14=-352/98, 7-14=-647/321, 9-14=-361/1213, 9-12=-1231/488

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-1 to 3-3-12, Interior(1) 3-3-12 to 13-8-0, Exterior(2) 13-8-0 to 19-10-11, Interior(1) 19-10-11 to 32-4-0, Exterior(2) 32-4-0 to 33-9-4 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.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 12=170.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



Job J0722-3740	Truss A08	Truss Type ATTIC	Qty 1	Ply 1	Precision/Lot 25 Liberty Meadows/Harnet	156905197
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 15:24:31 2023 Page 1

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Job Reference (optional)

1-2-8	6-10-4	9-8-5	10-7-10	13-8-0	22-3-12	27-1-14	27-9-4	32-4-0	34-1-8
1-2-8	6-10-4	2-10-1	0-11-5	3-0-6	8-7-12	4-10-2	0-7-6	4-6-12	1-9-8

Scale = 1:81.2

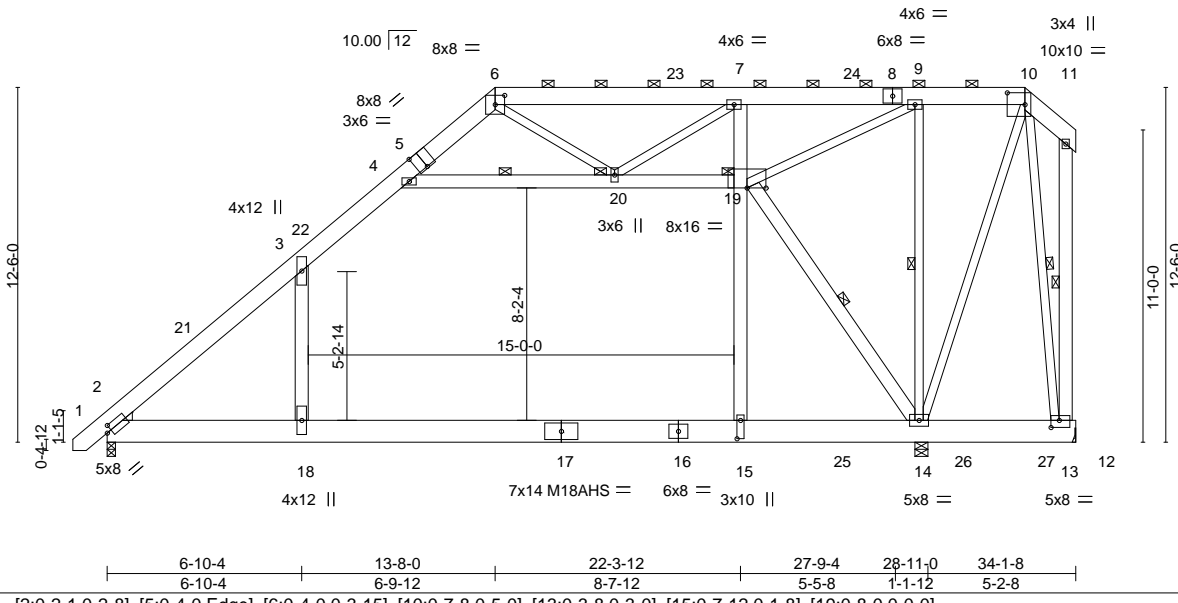


Plate Offsets (X,Y)--	[2:0-2-1,0-2-8], [5:0-4-0,Edge], [6:0-4-0,0-3-15], [10:0-7-8,0-5-0], [13:0-3-8,0-3-0], [15:0-7-12,0-1-8], [19:0-8-0,0-0-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.90	Vert(LL)	-0.35	15-18	>972	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.83	Vert(CT)	-0.59	15-18	>583	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.78	Horz(CT)	0.02	13	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.10	15-18	>999		
								Weight: 449 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x8 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-10.
BOT CHORD 2x10 SP No.1 *Except* 12-16: 2x10 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 3-18,4-19,7-15,11-13,14-19: 2x6 SP No.1	WEBS 1 Row at midpt 4-20, 9-14, 11-13, 10-13, 14-19
WEDGE Left: 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 19, 20

REACTIONS.	(size)
Max Horz	2=370(LC 12)
Max Uplift	13=95(LC 12)
Max Grav	2=2005(LC 20), 14=1985(LC 27), 13=595(LC 20)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2592/0, 3-4=-1766/52, 4-6=-346/176, 7-9=-240/451
BOT CHORD	2-18=-126/1781, 15-18=-126/1781, 14-15=-132/1738
WEBS	3-18=0/1074, 4-20=-1929/80, 19-20=-2028/404, 15-19=0/1866, 7-19=-737/332, 9-19=-718/389, 9-14=-267/217, 10-14=-111/330, 10-13=-340/151, 6-20=-69/294, 7-20=-115/363, 14-19=-2830/141

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-11-11 to 3-5-2, Interior(1) 3-5-2 to 13-8-0, Exterior(2) 13-8-0 to 19-10-11, Interior(1) 19-10-11 to 32-4-0, Exterior(2) 32-4-0 to 33-9-4 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.
 - All plates are MT20 plates unless otherwise indicated.
 - 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.
 - Ceiling dead load (10.0 psf) on member(s). 3-4, 4-20, 19-20; Wall dead load (5.0psf) on member(s).3-18, 15-19
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-18
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.



March 1, 2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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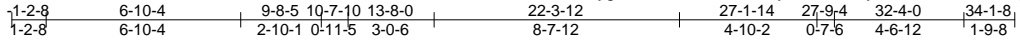
818 Soundside Road
Edenton, NC 27932

Job J0722-3740	Truss A09	Truss Type ATTIC	Qty 3	Ply 2	Precision/Lot 25 Liberty Meadows/Harnet I56905198
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 15:24:33 2023 Page 1

ID:52SygMJAAaHrWTAExlrbuZyFiSD-5AncyFJK9Aet6WdKNEzqDWgoGSuZIO4tHultSwzgzji



Scale = 1:81.2

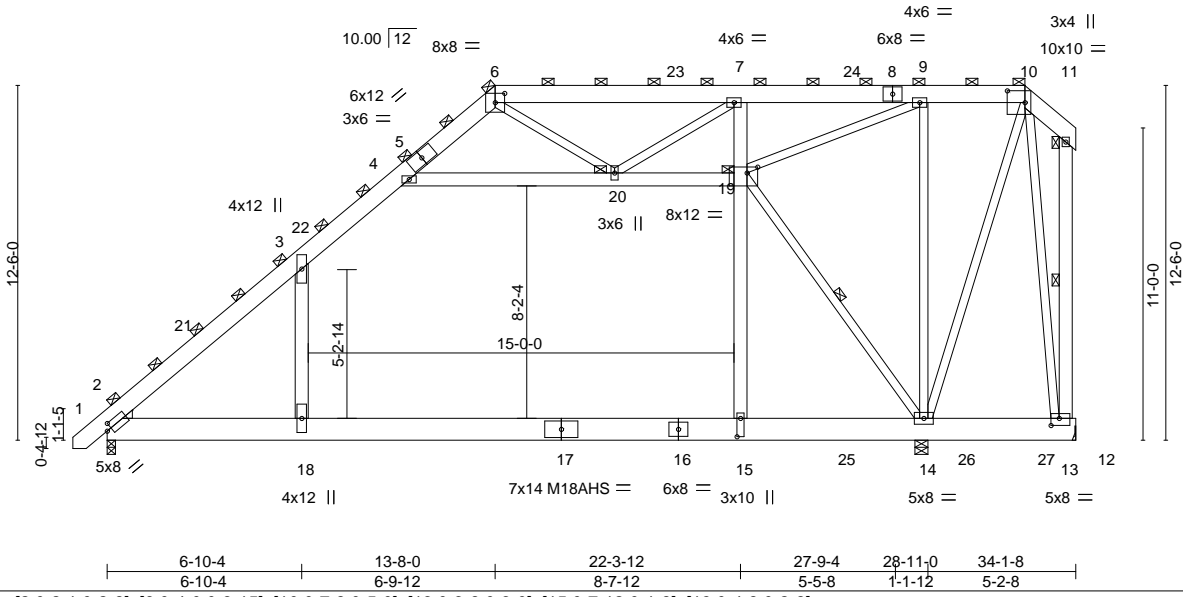


Plate Offsets (X,Y)--	[2:0-2-1,0-2-8], [6:0-4-0,0-3-15], [10:0-7-8,0-5-0], [13:0-3-8,0-3-0], [15:0-7-12,0-1-8], [19:0-4-8,0-2-8]
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LOADING (psf)	SPACING-	4-3-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.60	Vert(LL)	-0.33	15-18	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.57	Vert(CT)	-0.56	15-18	>618	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr	NO	WB 1.00	Horz(CT)	0.02	13	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.10	15-18	>999		
								Weight: 882 lb	FT = 20%

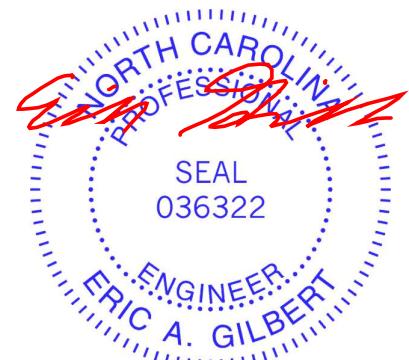
LUMBER-
TOP CHORD 2x8 SP 2400F 2.0E
BOT CHORD 2x10 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
3-18,4-19,7-15,11-13: 2x6 SP No.1, 14-19: 2x4 SP No.1
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals
(Switched from sheeted: Spacing > 2-8-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 11-13, 14-19
JOINTS 1 Brace at Jt(s): 6, 10, 19, 11, 20

REACTIONS. (size) 2=0-3-8, 14=0-5-8, 13=Mechanical
Max Horz 2=787(LC 12)
Max Uplift 14=-7(LC 8), 13=-178(LC 12)
Max Grav 2=4352(LC 20), 14=3811(LC 27), 13=1653(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5614/0, 3-4=-3848/112, 4-6=-828/336, 6-7=-634/228, 7-9=-498/941,
9-10=-528/231, 11-13=-252/117
BOT CHORD 2-18=-261/3848, 15-18=-261/3848, 14-15=-258/3834
WEBS 3-18=0/2309, 4-20=-4023/139, 19-20=-4479/877, 15-19=0/3825, 7-19=-1727/750,
9-19=-1593/774, 9-14=-597/441, 10-14=-236/1079, 10-13=-1028/321, 6-20=-38/712,
7-20=-324/1119, 14-19=-5848/257

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 - 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.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-11-11 to 3-5-2, Interior(1) 3-5-2 to 13-8-0, Exterior(2) 13-8-0 to 19-10-11, Interior(1) 19-10-11 to 32-4-0, Exterior(2) 32-4-0 to 33-9-4 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.
 - All plates are MT20 plates unless otherwise indicated.
 - 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.
 - Ceiling dead load (10.0 psf) on member(s). 3-4, 4-20, 19-20; Wall dead load (5.0psf) on member(s). 3-18, 15-19
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-18
 - Refer to girder(s) for truss to truss connections.



March 1, 2023

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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Edenton, NC 27932

Job J0722-3740	Truss A09	Truss Type ATTIC	Qty 3	Ply 2	Precision/Lot 25 Liberty Meadows/Harnet I56905198 Job Reference (optional)
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Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 15:24:33 2023 Page 2
ID:52SygMJAAHxRWTAExlrbuZyFISD-5AncyFJk9Aet6WDkNEzqDWgoGSuZIO4tHUItSwzgZji

NOTES-

- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 13=178.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Attic room checked for L/360 deflection.

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



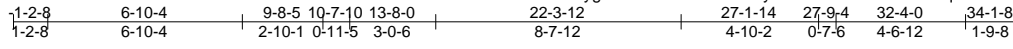
818 Soundside Road
Edenton, NC 27932

Job J0722-3740	Truss A09-A	Truss Type ATTIC	Qty 1	Ply 2	Precision/Lot 25 Liberty Meadows/Harnet I56905199
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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 15:24:35 2023 Page 1

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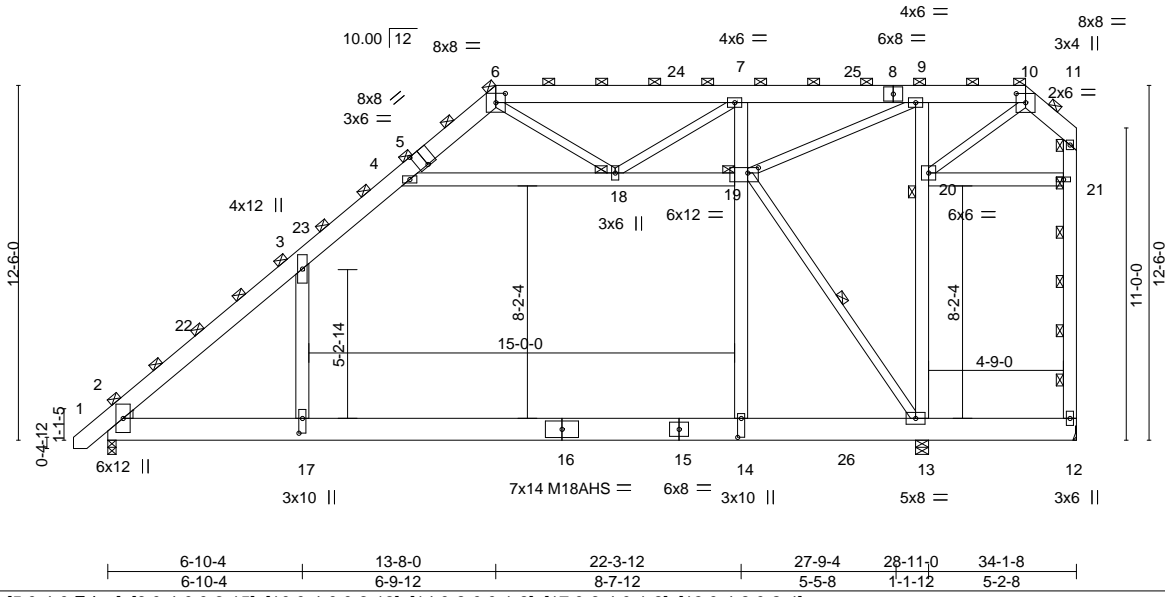


Plate Offsets (X, Y)--	[5:0-4-0,Edge], [6:0-4-0,0-3-15], [10:0-4-0,0-3-13], [14:0-8-0,0-1-8], [17:0-6-4,0-1-8], [19:0-4-8,0-2-4]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	4-10-0	TC 0.68	Vert(LL)	-0.37	14-17	>926	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.65	Vert(CT)	-0.62	14-17	>552	M18AHS	186/179
BCLL 0.0 *	Lumber DOL 1.15	WB 0.72	Horz(CT)	0.02	12	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Wind(LL)	0.11	14-17	>999		
	Code IRC2015/TP12014						Weight: 867 lb	FT = 20%

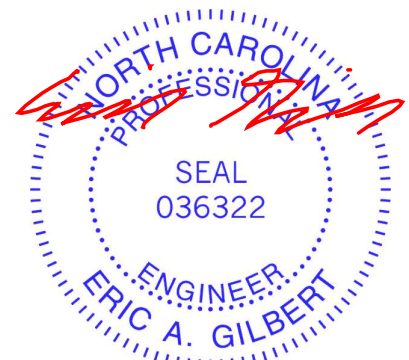
LUMBER-
 TOP CHORD 2x8 SP 2400F 2.0E
 BOT CHORD 2x10 SP 2400F 2.0E
 WEBS 2x6 SP No.1 *Except*
 6-18,7-18,10-20,9-19: 2x4 SP No.2, 13-19: 2x4 SP 2400F 2.0E
 WEDGE
 Left: 2x4 SP No.2

BRACING-
 TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals
 (Switched from sheeted: Spacing > 2-8-0).
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 13-19
 JOINTS 1 Brace at Jt(s): 6, 11, 18, 19, 10, 20

REACTIONS. (size) 2=0-3-8, 13=0-5-8, 12=Mechanical
 Max Horz 2=889(LC 12)
 Max Grav 2=4732(LC 20), 13=5982(LC 2), 12=1185(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-6125/0, 3-4=-4114/0, 4-6=-812/513, 6-7=-781/923, 7-9=-1372/2208,
 9-10=-305/225, 10-11=-291/106, 12-21=-469/25, 11-21=-343/100
 BOT CHORD 2-17=-803/4140, 14-17=-803/4140, 13-14=-812/4046, 12-13=-320/296
 WEBS 3-17=0/2629, 4-18=-4607/114, 18-19=-5348/1478, 14-19=0/4332, 7-19=-1934/1048,
 13-20=-1039/560, 9-20=-658/675, 6-18=-602/1004, 7-18=-657/1477, 13-19=-7032/851,
 10-20=-509/616, 20-21=-504/432, 9-19=-2166/1163

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 - 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.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-11-11 to 3-5-2, Interior(1) 3-5-2 to 13-8-0, Exterior(2) 13-8-0 to 19-10-11, Interior(1) 19-10-11 to 32-4-0, Exterior(2) 32-4-0 to 33-10-12 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.
 - All plates are MT20 plates unless otherwise indicated.
 - 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.
 - Ceiling dead load (10.0 psf) on member(s). 3-4, 4-18, 18-19, 20-21; Wall dead load (5.0psf) on member(s).3-17, 14-19, 13-20
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-17, 12-13
 - Refer to girder(s) for truss to truss connections.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.



March 1, 2023

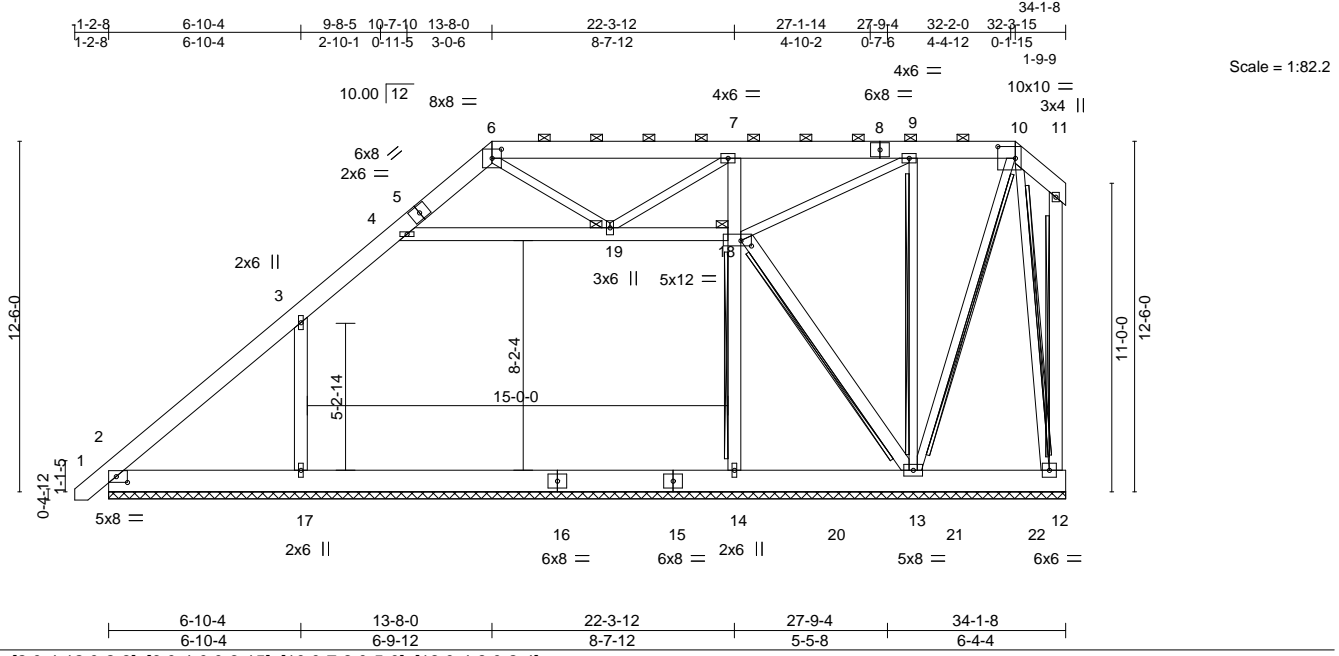
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 25 Liberty Meadows/Harnet	156905200
J0722-3740	A10-GE	ATTIC	1	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 15:24:36 2023 Page 1
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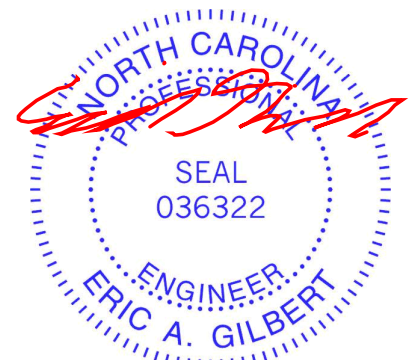
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLR 20.0	2-0-0	TC 0.20	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.45	Vert(LL) -0.00 1 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.33	Vert(CT) -0.00 1 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 12 n/a n/a		
	Code IRC2015/TPI2014			Weight: 448 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x8 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-10.
BOT CHORD 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 3-17,4-18,7-14,11-12,13-18: 2x6 SP No.1	WEBS T-Brace: 2x4 SPF No.2 - 14-18, 9-13, 10-13, 11-12, 10-12, 13-18
	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): 18, 19

REACTIONS.
All bearings 34-1-8.
(lb) - Max Horz 2=537(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 14, 12 except 17=244(LC 12), 13=272(LC 9)
Max Grav All reactions 250 lb or less at joint(s) except 2=646(LC 24), 17=1355(LC 20), 14=1245(LC 18), 13=867(LC 1), 12=305(LC 2)

FORCES.
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-736/20, 3-4=-787/152, 4-6=-509/171, 6-7=-253/41
BOT CHORD 2-17=-192/465, 14-17=-192/465, 13-14=-192/471
WEBS 3-17=-707/376, 18-19=-608/235, 14-18=-423/281, 7-18=-787/335, 7-19=-34/459, 13-18=-783/313

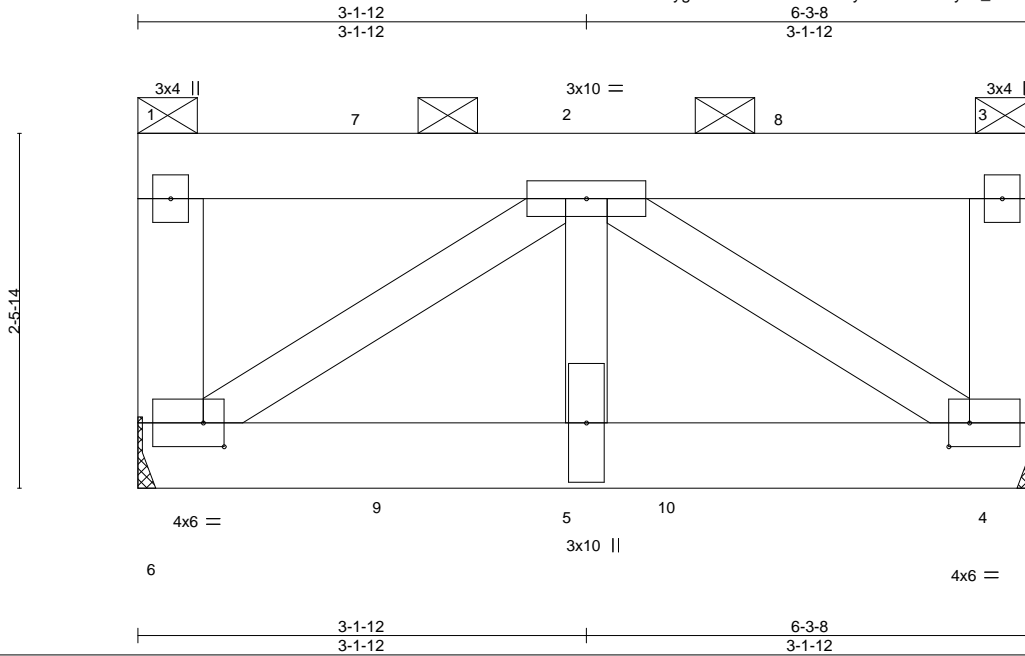
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Ceiling dead load (10.0 psf) on member(s). 3-4, 4-19, 18-19; Wall dead load (5.0psf) on member(s).3-17, 14-18
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 12 except (jt=lb) 17=244, 13=272.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
 - 11) Attic room checked for L/360 deflection.



Job J0722-3740	Truss A11	Truss Type FLAT	Qty 1	Ply 2	Precision/Lot 25 Liberty Meadows/Harnet I56905201
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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 15:24:38 2023 Page 1
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Scale = 1:16.2

Plate Offsets (X,Y)--	[4:0-1-12,0-2-0], [6:0-1-12,0-2-0]				
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 0.05	Vert(LL) -0.01 5-6 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.34	Vert(CT) -0.02 5-6 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.25	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.01 5-6 >999 240	Weight: 96 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD 2-0-0 oc purlins: 1-3, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 1-6,3-4: 2x6 SP No.1	

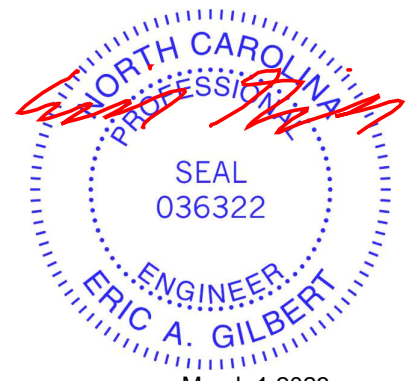
REACTIONS. (size) 6=Mechanical, 4=Mechanical
 Max Uplift 6=-197(LC 8), 4=-311(LC 8)
 Max Grav 6=1590(LC 2), 4=2558(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 BOT CHORD 5-6=-266/1485, 4-5=-266/1485
 WEBS 2-4=-1810/325, 2-6=-1810/325, 2-5=-195/198

- 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) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 6-0-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=197, 4=311.
 - 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) 1244 lb down and 162 lb up at 1-9-12, and 1244 lb down and 162 lb up at 3-9-12, and 1252 lb down and 155 lb up at 6-0-12 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, 4-6=-20

Continued on page 2



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
 A MITEK Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job J0722-3740	Truss A11	Truss Type FLAT	Qty 1	Ply 2	Precision/Lot 25 Liberty Meadows/Harnet I56905201
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 15:24:38 2023 Page 2
ID:52SygMJAaHxrWTaExlrbuZyFiSD-S8aV0yMt_iH9CH6iAnZ?waNnZTfPzr9cQm0e77zgZjd

Job Reference (optional)

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 4=-1056 9=-1048 10=-1048

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Precision/Lot	25 Liberty Meadows/Harnet
J0722-3740	B1-GE	GABLE	1	1		156905202
						Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 15:24:39 2023 Page 1

ID:52SyygMJAaHxrWtaExlrbuZyFiSD-wK8tDINVi0P0qRhukU4ESnwwct1FiIwIfQlBgagzJc



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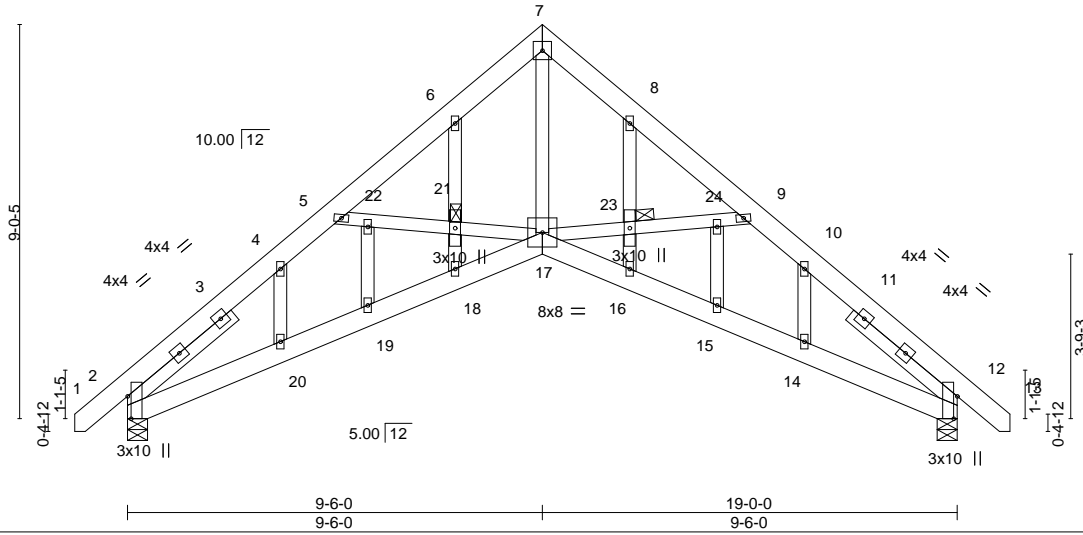


Plate Offsets (X,Y)--	[2:0-6-3,Edge], [12:0-6-3,Edge]					PLATES	GRIP
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	
TCLL 20.0	Plate Grip DOL 1.15	TC 0.16	Vert(LL) -0.03	16	>999	360	MT20
TCDL 10.0	Lumber DOL 1.15	BC 0.17	Vert(CT) -0.07	16	>999	240	244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.24	Horz(CT) 0.07	12	n/a	n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.03	18	>999	240	Weight: 165 lb FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 OTHERS 2x4 SP No.2
 SLIDER Left 2x4 SP No.2 3-2-9, Right 2x4 SP No.2 3-2-9

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 21, 23

REACTIONS. (size) 2=0-5-8, 12=0-5-8
 Max Horz 2=264(LC 11)
 Max Uplift 2=-162(LC 12), 12=-162(LC 13)
 Max Grav 2=822(LC 1), 12=822(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1406/280, 4-5=-1198/314, 5-6=-1042/149, 6-7=-972/229, 7-8=-987/255,
 8-9=-1064/201, 9-10=-1192/301, 10-12=-1406/266
 BOT CHORD 2-20=-283/1167, 19-20=-282/1146, 18-19=-271/1160, 17-18=-291/1186, 16-17=-94/1006,
 15-16=-76/982, 14-15=-86/966, 12-14=-86/986
 WEBS 7-17=-219/1000, 17-23=-319/307, 23-24=-315/303, 9-24=-313/302, 5-22=-316/266,
 21-22=-317/266, 17-21=-322/270

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 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) Bearing at joint(s) 2, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=162, 12=162.



March 1, 2023

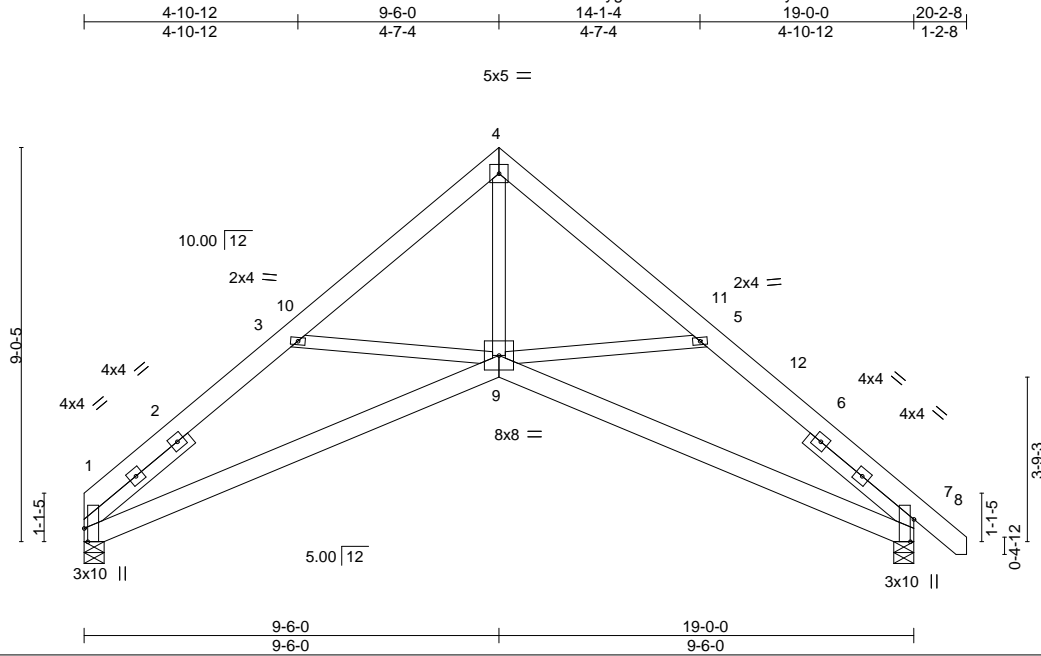
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job J0722-3740	Truss B2	Truss Type SCISSORS	Qty 3	Ply 1	Precision/Lot 25 Liberty Meadows/Harnet I56905203
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 15:24:40 2023 Page 1
ID:52SygMJAaHxrWTaExlrbuZyFiSD-OWiFQeO7WJXtSbF4lCbT??T55HLgRltvu4VIC0zgZjb



Scale = 1:52.8

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.17	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.29	Vert(LL) -0.06 1-9 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.23	Vert(CT) -0.14 1-9 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.07 7 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.02 9 >999 240	Weight: 141 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
SLIDER Left 2x4 SP No.2 3-2-9, Right 2x4 SP No.2 3-2-9	

REACTIONS. (size) 1=0-5-8, 7=0-5-8
 Max Horz 1=-210(LC 10)
 Max Uplift 1=-28(LC 12), 7=-47(LC 13)
 Max Grav 1=743(LC 1), 7=824(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-1343/300, 3-4=-1062/156, 4-5=-1061/136, 5-7=-1338/277
 BOT CHORD 1-9=-155/1118, 7-9=-117/980
 WEBS 4-9=-29/960, 5-9=-277/262, 3-9=-277/270

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-2 to 4-7-1, Interior(1) 4-7-1 to 9-6-0, Exterior(2) 9-6-0 to 13-10-13, Interior(1) 13-10-13 to 20-1-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Bearing at joint(s) 1, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7.



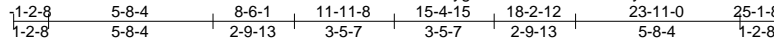
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job J0722-3740	Truss C1-GE	Truss Type ATTIC	Qty 1	Ply 1	Precision/Lot 25 Liberty Meadows/Harnet I56905204
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Comtech, Inc., Fayetteville, NC 28309

ID:52SygMJAAHxrWTaExlrbuZyFISD-DskTCvnpPoaCba8lhm1wn2Y12qSqOpGqjSJHThzgYxO
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 16:18:13 2023 Page 1



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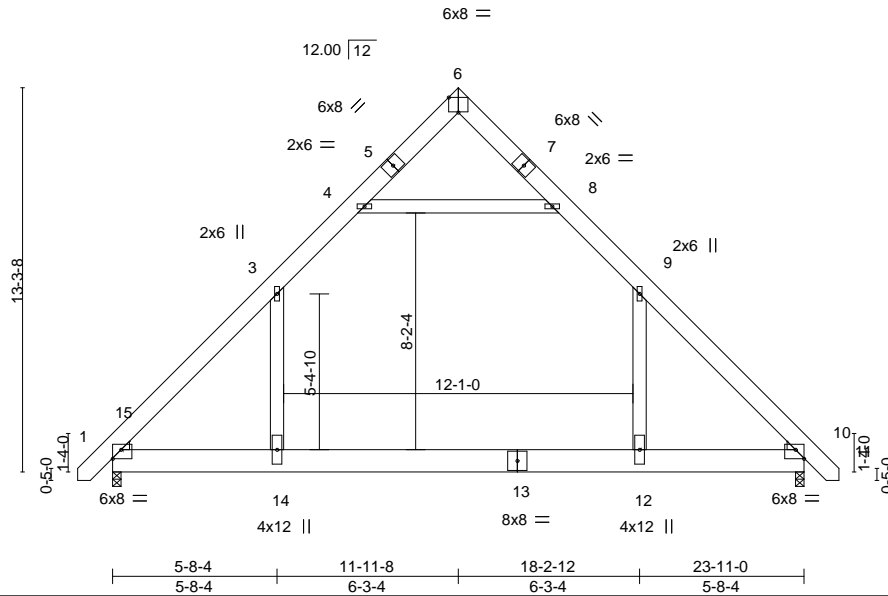


Plate Offsets (X,Y)--	[2:Edge,0-3-12], [6:0-4-0,Edge], [10:Edge,0-3-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.65	Vert(LL) -0.21 12-14 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.73	Vert(CT) -0.36 12-14 >788 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.55	Horz(CT) 0.01 10 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.10 12-14 >999 240		
				Weight: 254 lb	FT = 20%

LUMBER-
TOP CHORD 2x8 SP No.1
BOT CHORD 2x10 SP No.1
WEBS 2x6 SP No.1
WEDGE
Left: 2x4 SP No.2 , Right: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=1313/0-3-8 (min. 0-1-14), 10=1326/0-3-8 (min. 0-1-14)
Max Horz 2=-388(LC 10)
Max Grav 2=1581(LC 20), 10=1591(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2182/0, 3-4=-1189/187, 8-9=-1188/187, 9-10=-2182/0
BOT CHORD 2-14=0/1294, 13-14=0/1294, 12-13=0/1294, 10-12=0/1294
WEBS 9-12=0/1066, 3-14=0/1066, 4-8=-1427/246

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Ceiling dead load (10.0 psf) on member(s). 3-4, 8-9, 4-8; Wall dead load (5.0psf) on member(s).9-12, 3-14
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



March 1, 2023

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

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



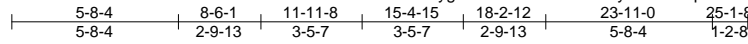
818 Soundside Road
Edenton, NC 27932

Job J0722-3740	Truss C2	Truss Type ATTIC	Qty 3	Ply 1	Precision/Lot 25 Liberty Meadows/Harnet I56905205
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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 15:24:42 2023 Page 1

ID:52SygMJAaHxrWTAExlrbuZyFiSD-Kvq0rKQO1xnbhuPTPddx4QYJ54w3vZGCL0_rGvgzZjZ



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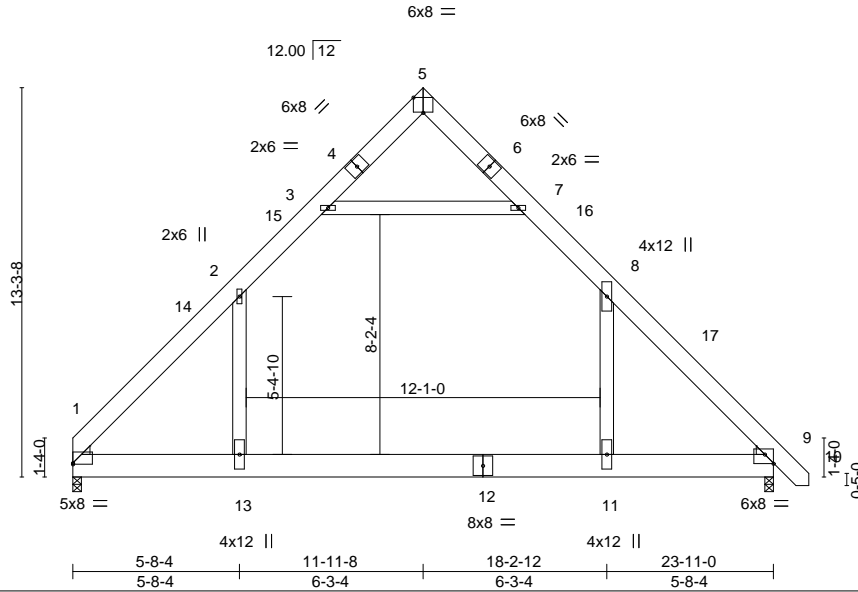


Plate Offsets (X,Y)-- [1:0-0-0,0-0-8], [5:0-4-0,Edge], [9:Edge,0-3-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.65	Vert(LL)	-0.22 11-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.74	Vert(CT)	-0.36 11-13	>778	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.01 9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.07 13	>999	240		
								Weight: 250 lb	FT = 20%

LUMBER-

TOP CHORD 2x8 SP No.1
 BOT CHORD 2x10 SP No.1
 WEBS 2x6 SP No.1
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-4 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=0-3-8, 9=0-3-8
 Max Horz 1=-307(LC 8)
 Max Grav 1=1544(LC 21), 9=1598(LC 21)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2135/0, 2-3=-1187/149, 7-8=-1183/143, 8-9=-2164/0
 BOT CHORD 1-13=0/1269, 11-13=0/1269, 9-11=0/1269
 WEBS 8-11=0/1072, 2-13=0/1030, 3-7=-1443/169

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 11-11-8, Exterior(2) 11-11-8 to 16-4-5, Interior(1) 16-4-5 to 24-10-14 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Ceiling dead load (10.0 psf) on member(s). 2-3, 7-8, 3-7; Wall dead load (5.0psf) on member(s).8-11, 2-13
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
- 7) Attic room checked for L/360 deflection.



March 1, 2023

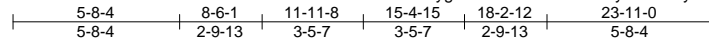
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job J0722-3740	Truss C3	Truss Type ATTIC	Qty 6	Ply 1	Precision/Lot 25 Liberty Meadows/Harnet I56905206
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 15:24:44 2023 Page 1
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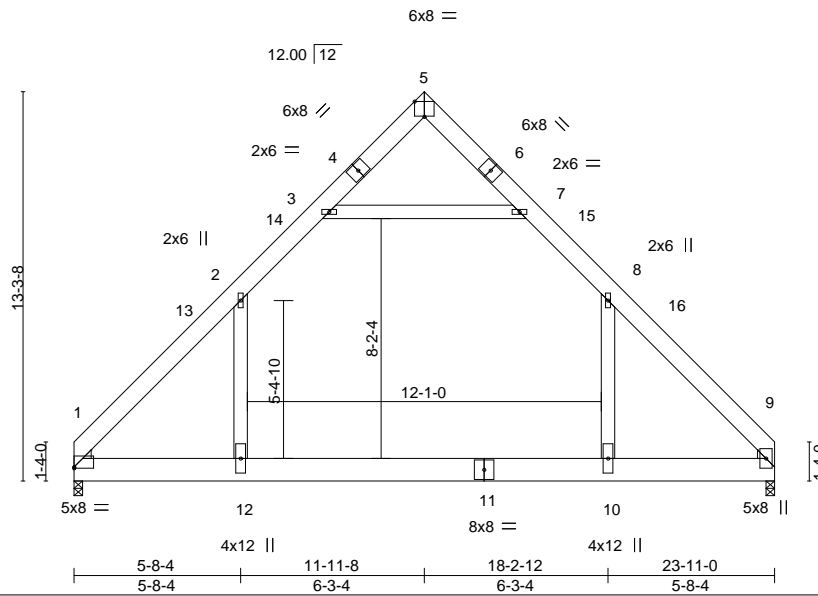


Plate Offsets (X,Y)--	[1:0-0-0,0-0-8], [5:0-4-0,Edge]
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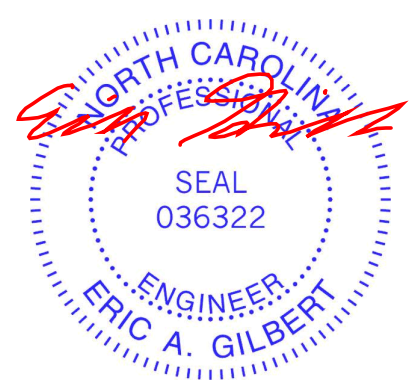
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.64	Vert(LL)	-0.22	10-12	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.75	Vert(CT)	-0.37	10-12	>768		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.56	Horz(CT)	0.01	9	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.07	12	>999		
	Code IRC2015/TPI2014						Weight: 245 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x8 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-0-8 oc purlins.
BOT CHORD 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1	
WEDGE	
Left: 2x4 SP No.3 , Right: 2x4 SP No.2	

REACTIONS.
(size) 1=0-3-8, 9=0-3-8
Max Horz 1=299(LC 9)
Max Grav 1=1545(LC 21), 9=1545(LC 20)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-2140/0, 2-3=-1187/149, 7-8=-1186/149, 8-9=-2140/0
BOT CHORD	1-12=0/1265, 10-12=0/1265, 9-10=0/1265
WEBS	8-10=0/1035, 2-12=0/1035, 3-7=-1451/171

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 11-11-8, Exterior(2) 11-11-8 to 16-4-5, Interior(1) 16-4-5 to 23-9-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Ceiling dead load (10.0 psf) on member(s). 2-3, 7-8, 3-7; Wall dead load (5.0psf) on member(s).8-10, 2-12
 - 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-12
 - 7) Attic room checked for L/360 deflection.



March 1, 2023

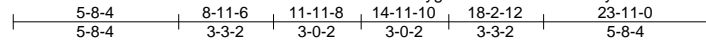
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job J0722-3740	Truss C4	Truss Type ATTIC GIRDER	Qty 1	Ply 2	Precision/Lot 25 Liberty Meadows/Harnet I56905207
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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 15:24:45 2023 Page 1

ID:52SygMJAaHxrWtaExlrbuZyFISD-IUW8ULSGKS9AYM824lBei2ArPlz16_ke1LCWtDzgzJW



Scale = 1:79.2

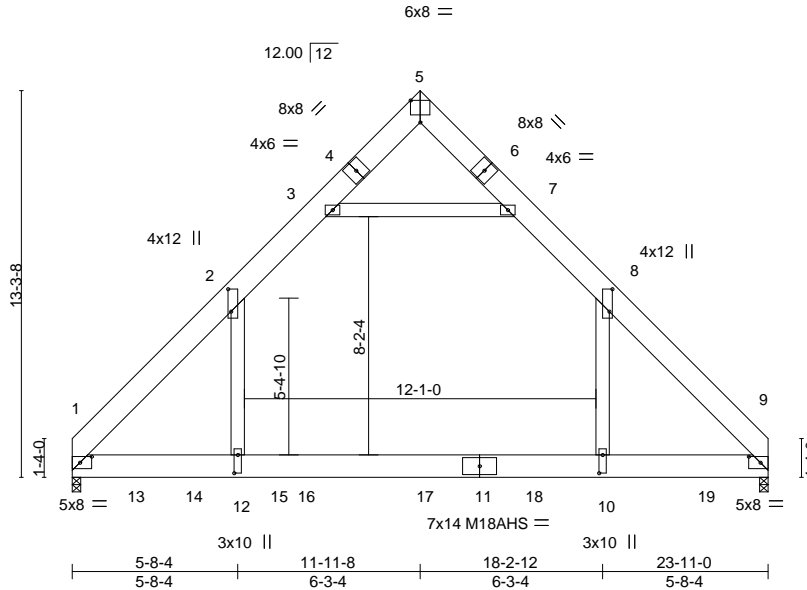


Plate Offsets (X, Y)--	[1:0-4-13,0-2-8], [2:0-9-4,0-1-4], [5:0-4-0,Edge], [8:0-9-4,0-1-4], [9:0-4-13,0-2-8], [10:0-7-8,0-1-8], [12:0-7-8,0-1-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.59	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.60	Vert(LL) -0.24 10-12 >999 360	M18AHS	186/179
BCLL 0.0 *	Lumber DOL 1.15	WB 0.32	Vert(CT) -0.46 10-12 >621 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.02 9 n/a n/a		
	Code IRC2015/TP12014		Wind(LL) 0.15 10-12 >999 240	Weight: 547 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x10 SP No.1 *Except* 1-4,6-9: 2x10 SP 2400F 2.0E	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x10 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1	

REACTIONS. (size) 1=0-3-8, 9=0-3-8
 Max Horz 1=-296(LC 24)
 Max Uplift 1=-373(LC 9), 9=-45(LC 8)
 Max Grav 1=6343(LC 2), 9=5175(LC 2)

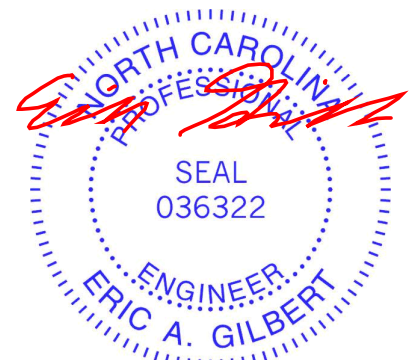
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-6911/193, 2-3=-3009/118, 3-5=-141/1313, 5-7=-53/1082, 7-8=-3240/207, 8-9=-6658/87

BOT CHORD 1-12=-23/3940, 10-12=-23/3977, 9-10=-23/3945

WEBS 8-10=-6/4586, 2-12=-279/5259, 3-7=-5610/268

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-7-0 oc.
 Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 - 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.
 - Unbalanced roof live loads have been considered for this design.
 - 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
 - All plates are MT20 plates unless otherwise indicated.
 - 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.
 - Ceiling dead load (10.0 psf) on member(s). 2-3, 7-8, 3-7; Wall dead load (5.0psf) on member(s).8-10, 2-12
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-12
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 1=373.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1311 lb down and 190 lb up at 2-0-12, 1311 lb down and 190 lb up at 4-0-12, 513 lb down and 115 lb up at 6-0-12, 1431 lb down and 220 lb up at 7-11-0, 1431 lb down and 220 lb up at 12-0-0, and 1148 lb down at 15-9-0, and 1431 lb down and 220 lb up at 21-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - Attic room checked for L/360 deflection.



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LOAD CASE(S) Standard

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

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 Edenton, NC 27932

Job J0722-3740	Truss C4	Truss Type ATTIC GIRDER	Qty 1	Ply 2	Precision/Lot 25 Liberty Meadows/Harnet I56905207 Job Reference (optional)
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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 15:24:45 2023 Page 2
ID:52SgMJAAHrWTaExlrbuZyFiSD-IUW8ULSGKs9AYM824IBei2ArPlz16_ke1LCWtDzgZjW

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-80, 3-5=-60, 5-7=-60, 7-8=-80, 8-9=-60, 1-12=-20, 10-12=-40, 9-10=-20, 3-7=-20

Drag: 8-10=-10, 2-12=-10

Concentrated Loads (lb)

Vert: 13=-1219(B) 14=-1219(B) 15=-411(B) 16=-1144(B) 17=-1144(B) 18=-756(B) 19=-1144(B)

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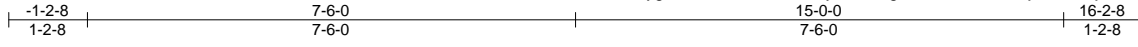


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Edenton, NC 27932

Job J0722-3740	Truss D1-SG	Truss Type GABLE	Qty 1	Ply 1	Precision/Lot 25 Liberty Meadows/Harnet 156905208
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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 15:24:46 2023 Page 1
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5x5 =

Scale = 1:35.4

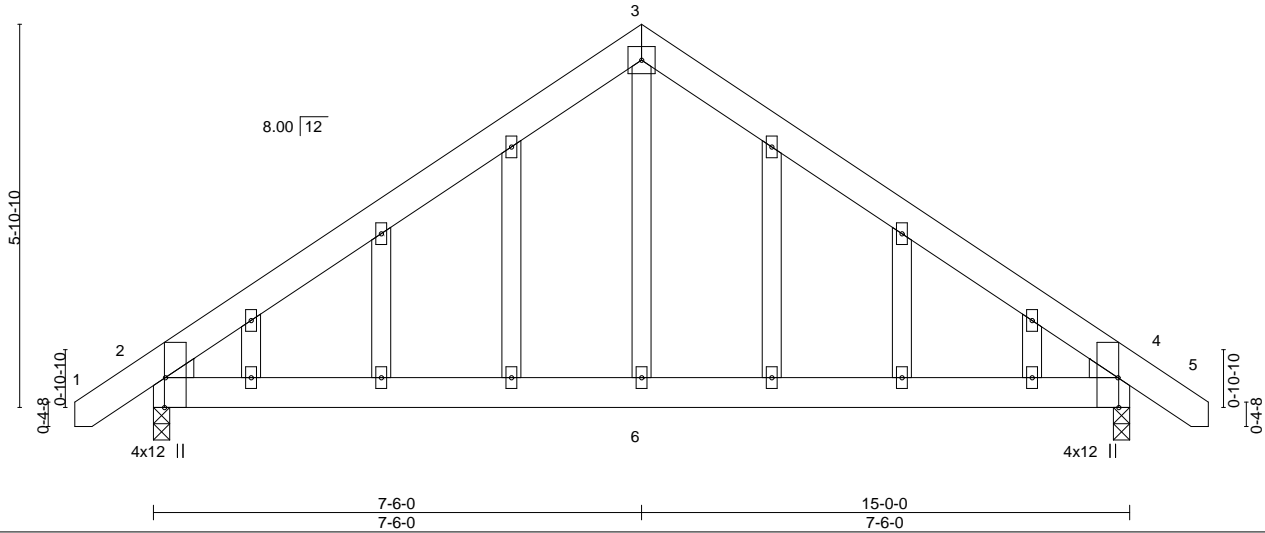


Plate Offsets (X, Y)--	[2:0-5-8,Edge], [4:0-5-8,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.25	Vert(LL) 0.05 4-6 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.32	Vert(CT) -0.04 4-6 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.21	Horz(CT) 0.01 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S			
				Weight: 114 lb	FT = 20%

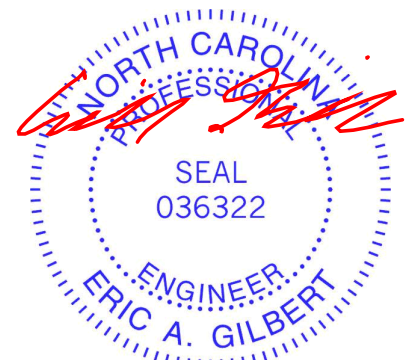
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 OTHERS 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.2 , Right: 2x4 SP No.2

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

REACTIONS. (size) 2=0-3-0, 4=0-3-0
 Max Horz 2=171(LC 11)
 Max Uplift 2=-146(LC 12), 4=-146(LC 13)
 Max Grav 2=662(LC 1), 4=662(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-699/643, 3-4=-699/643
 BOT CHORD 2-6=-370/462, 4-6=-370/462
 WEBS 3-6=-462/359

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 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=146, 4=146.



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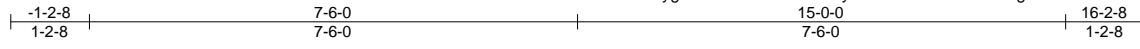
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Job	Truss	Truss Type	Qty	Ply	Precision/Lot 25 Liberty Meadows/Harnet	I56905209
J0722-3740	D2	COMMON	6	1		

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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 15:24:47 2023 Page 1
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5x5 =

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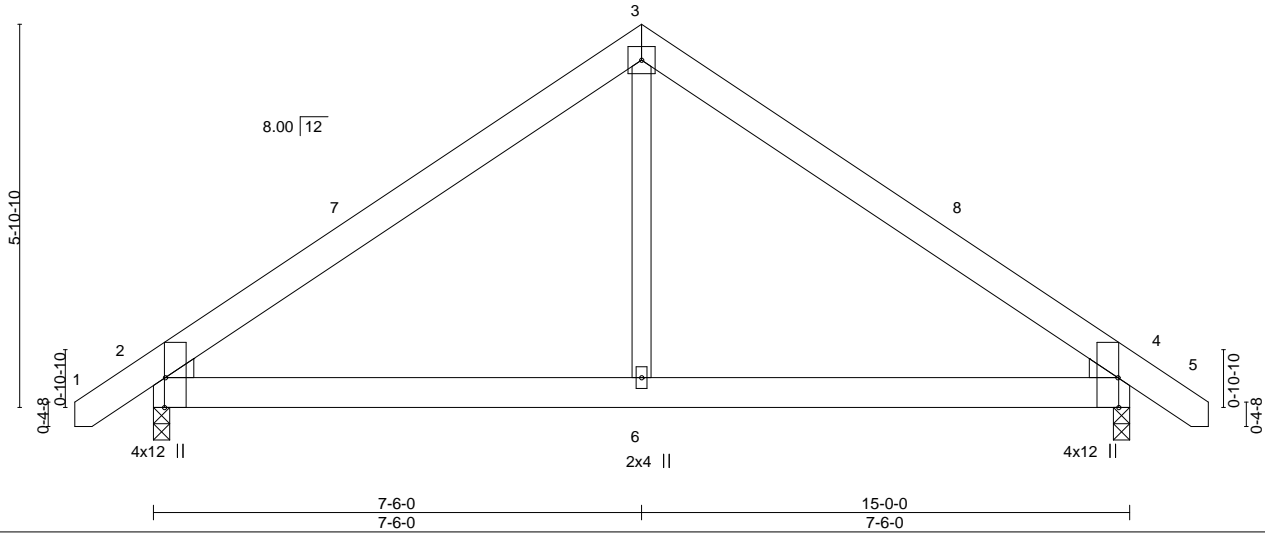


Plate Offsets (X, Y)--	[2:0-5-8,Edge], [4:0-5-8,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.25	Vert(LL) -0.02 4-6 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.20	Vert(CT) -0.04 4-6 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.08	Horz(CT) 0.01 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.02 2-6 >999 240	Weight: 93 lb	FT = 20%

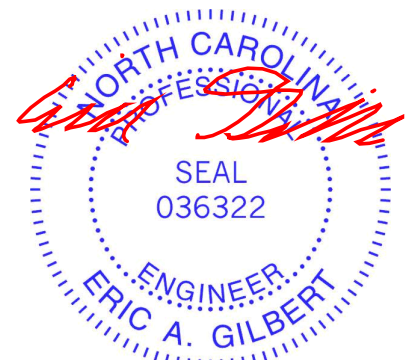
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.2 , Right: 2x4 SP No.2

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

REACTIONS. (size) 2=0-3-0, 4=0-3-0
 Max Horz 2=137(LC 11)
 Max Uplift 2=-47(LC 12), 4=-47(LC 13)
 Max Grav 2=662(LC 1), 4=662(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-699/168, 3-4=-699/167
 BOT CHORD 2-6=0/466, 4-6=0/466
 WEBS 3-6=0/359

- 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 7-6-0, Exterior(2) 7-6-0 to 11-10-13, Interior(1) 11-10-13 to 16-0-15 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



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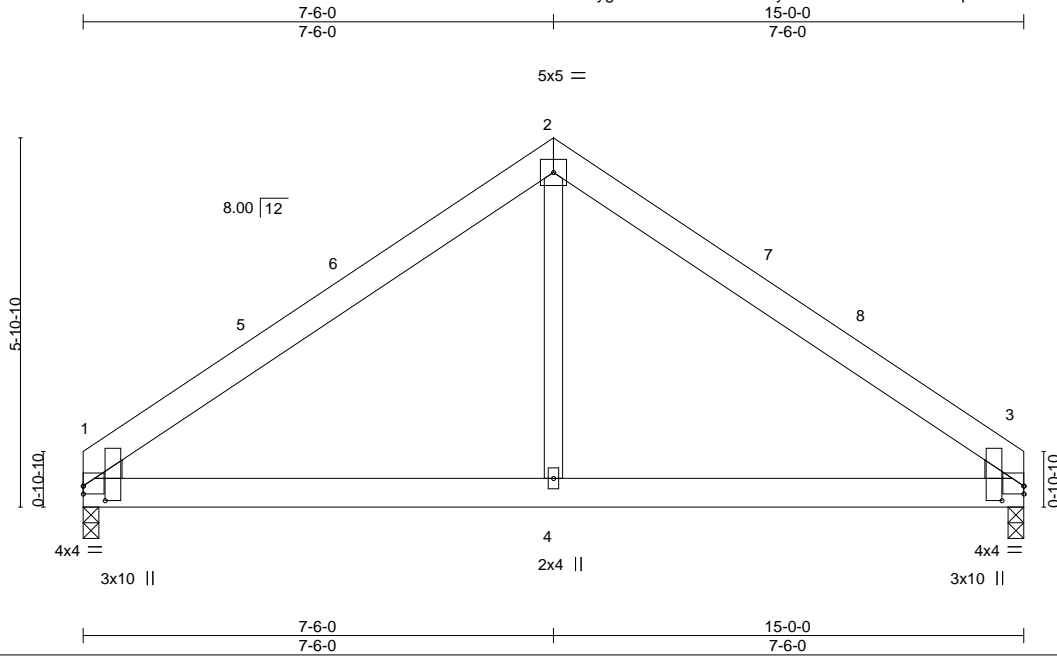
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job J0722-3740	Truss D3	Truss Type COMMON	Qty 1	Ply 1	Precision/Lot 25 Liberty Meadows/Harnet I56905210
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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 15:24:48 2023 Page 1

ID:52SygMJAAHxrWTaExlrbuZyFISD-93BH6NU9dnXkPtdmtkLKhoRev4PJM94kJRAUYzgZJT



Scale = 1:36.7

Plate Offsets (X,Y)--	[1:0-0,0-1-8], [1:0-2-13,0-4-3], [3:Edge,0-1-8], [3:0-2-13,0-4-3]
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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 0.27	Vert(LL)	0.05	3-4	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.30	Vert(CT)	-0.04	3-4	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.21	Horz(CT)	0.01	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						

Weight: 87 lb FT = 20%

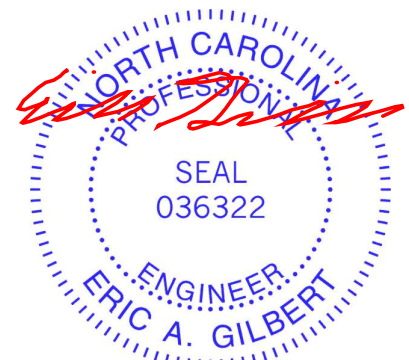
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2 , Right: 2x4 SP No.2

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

REACTIONS. (size) 1=0-3-0, 3=0-3-0
Max Horz 1=-129(LC 8)
Max Uplift 1=-88(LC 9), 3=-88(LC 8)
Max Grav 1=590(LC 1), 3=590(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-705/632, 2-3=-705/632
BOT CHORD 1-4=-380/472, 3-4=-380/472
WEBS 2-4=-458/362

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-8 to 4-6-5, Interior(1) 4-6-5 to 7-6-0, Exterior(2) 7-6-0 to 11-10-13, Interior(1) 11-10-13 to 14-10-8 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



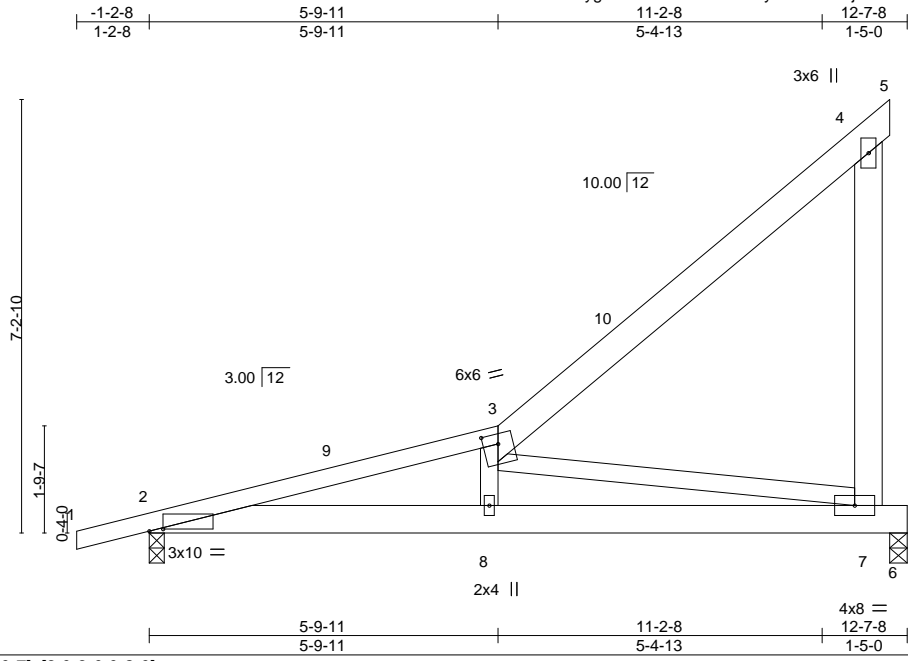
March 1, 2023

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job J0722-3740	Truss M1	Truss Type ROOF SPECIAL	Qty 3	Ply 1	Precision/Lot 25 Liberty Meadows/Harnet I56905211
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 15:24:49 2023 Page 1
ID:52SygMJAaHxrWTaExlrbuZyFISD-dFlfJvN04fb1zRpJbFasulcKvRl2gJEyzAj0?zgZjS



Scale = 1:38.4

Plate Offsets (X,Y)-- [2:0-2-12,0-0-7], [3:0-3-0,0-2-0]

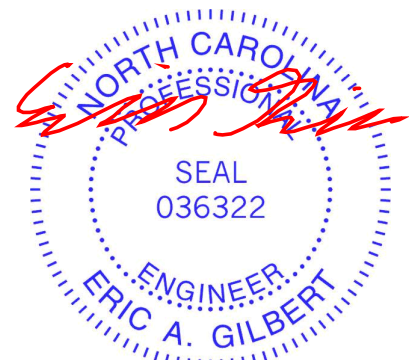
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.27	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.25	Vert(LL) -0.04 8 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.79	Vert(CT) -0.09 7-8 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 6 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.09 7-8 >999 240	Weight: 86 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1 *Except* 3-5: 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-2-1 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 7-0-11 oc bracing.
WEBS 2x4 SP No.2 *Except* 4-7: 2x6 SP No.1	

REACTIONS. (size) 2=0-3-0, 6=0-3-8
Max Horz 2=225(LC 12)
Max Uplift 2=-182(LC 8), 6=-178(LC 9)
Max Grav 2=578(LC 1), 6=481(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1260/957, 4-7=-260/194
BOT CHORD 2-8=-1173/1186, 7-8=-1134/1170
WEBS 3-8=-356/280, 3-7=-1151/1108

- 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 12-4-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) 2=182, 6=178.



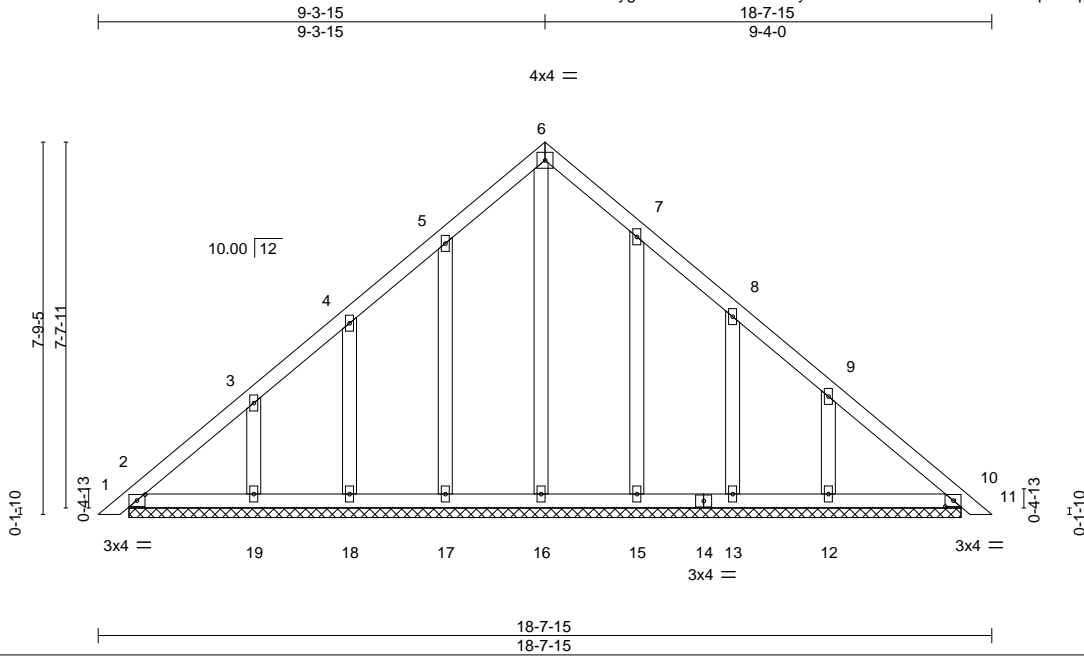
March 1, 2023

Job J0722-3740	Truss PB1-GE	Truss Type GABLE	Qty 2	Ply 1	Precision/Lot 25 Liberty Meadows/Harnet I56905212
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 15:24:50 2023 Page 1

ID:52SygMJAAhXrWTAExIrbuZyFISD-5SJ1X3WP9OnSe70?tlmpP6tqAJqnnHcNBdwHZRzgzJR



Scale: 1/4"=1'

Plate Offsets (X,Y)--	[2:0-2-1,0-1-8], [10:0-2-1,0-1-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) 0.00 10 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) 0.00 11 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.15	Horz(CT) 0.00 10 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 106 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.2

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

REACTIONS. All bearings 17-4-8.
 (lb) - Max Horz 2=227(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 18, 13, 10 except 17=119(LC 12), 19=154(LC 12), 15=109(LC 13), 12=161(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 16, 17, 18, 19, 15, 13, 10 except 12=261(LC 20)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 18, 13, 10 except (jt=lb) 17=119, 19=154, 15=109, 12=161.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



March 1, 2023

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

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

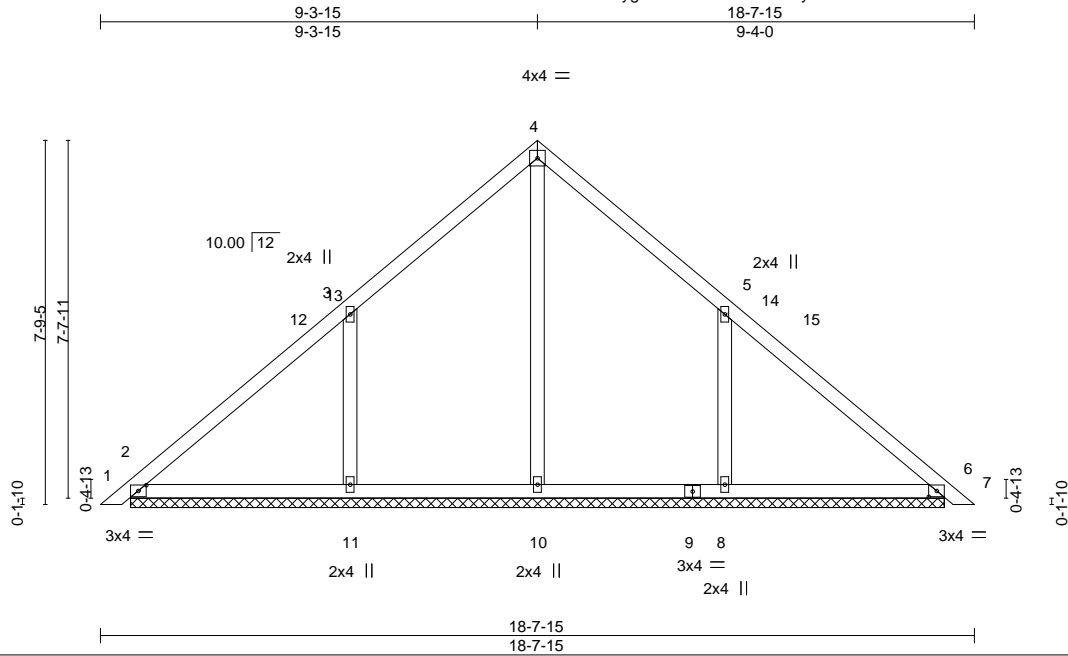


818 Soundside Road
 Edenton, NC 27932

Job J0722-3740	Truss PB2	Truss Type GABLE	Qty 12	Ply 1	Precision/Lot 25 Liberty Meadows/Harnet I56905213
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 15:24:51 2023 Page 1
 ID:52SgMJAAHxrWtaExlrbuZyFiSD-aetPkPW1wiwJGHbCR0l2xJQzqj8yWk7WQHf5tzgZjQ



Scale = 1:49.2

Plate Offsets (X,Y)--	[2:0-2-1,0-1-8], [6:0-2-1,0-1-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.21	Vert(LL) 0.00 7 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.18	Vert(CT) 0.01 7 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.13	Horz(CT) 0.00 6 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 83 lb	FT = 20%

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

REACTIONS. All bearings 17-4-8.
 (lb) - Max Horz 2=182(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2 except 11=170(LC 12), 8=170(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 10=415(LC 22), 11=548(LC 19), 8=548(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-11=415/283, 5-8=415/283

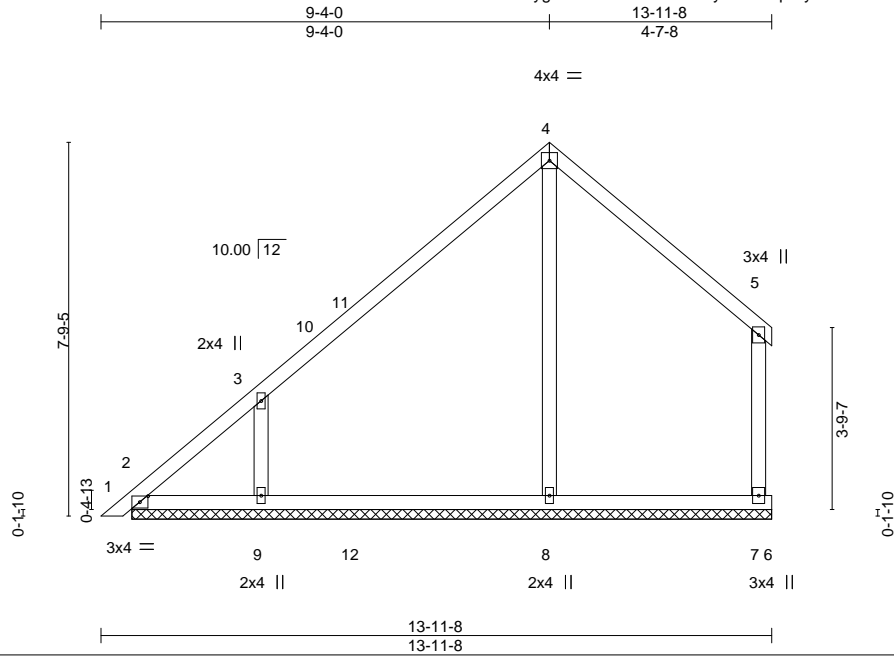
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 9-3-15, Exterior(2) 9-3-15 to 13-8-12, Interior(1) 13-8-12 to 18-5-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 11=170, 8=170.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Job J0722-3740	Truss PB3	Truss Type PIGGYBACK	Qty 3	Ply 1	Precision/Lot 25 Liberty Meadows/Harnet I56905214
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 15:24:52 2023 Page 1
 ID:52SygMJAaHxrWTaExlrbuZyFiSD-2qRoyIXfh?2AuRAO?jpHUXz7w6R1F95gxfPNdJzgZjP



Scale: 1/4"=1'

Plate Offsets (X,Y)--	[2:0-2-1,0-1-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.31	Vert(LL) -0.00 1 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.32	Vert(CT) -0.00 1 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.28	Horz(CT) 0.00 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 66 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 13-3-12.
 (lb) - Max Horz 2=176(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 7, 2 except 9=188(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 2 except 7=275(LC 20), 8=672(LC 19), 9=573(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 4-8=-304/62, 3-9=-481/339

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 9-4-0, Exterior(2) 9-4-0 to 13-8-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2 except (jt=lb) 9=188.
 - 6) Non Standard bearing condition. Review required.
 - 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



March 1, 2023

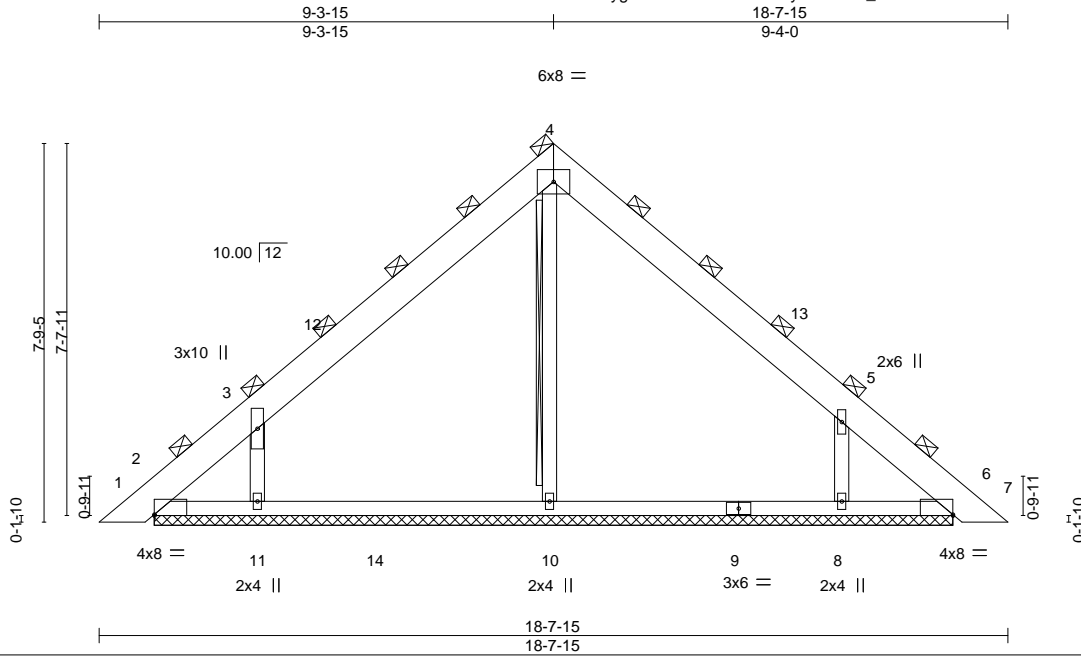
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	Precision/Lot 25 Liberty Meadows/Harnet	156905215
J0722-3740	PB4	PIGGYBACK	4	1		

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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 15:24:53 2023 Page 1

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Scale = 1:47.3

Plate Offsets (X, Y)--	[2:Edge,0-0-4], [6:0-0-0,0-0-4]				
LOADING (psf)	SPACING- 4-11-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.25	Vert(LL) -0.00 6 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.98	Vert(CT) -0.00 6 n/r 120		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.57	Horz(CT) 0.02 6 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 114 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x8 SP No.1	TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
BOT CHORD 2x4 SP No.1	(Switched from sheeted: Spacing > 2-8-0).
OTHERS 2x4 SP No.2	Rigid ceiling directly applied or 9-0-15 oc bracing.
	T-Brace: 2x4 SPF No.2 - 4-10
	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. All bearings 16-4-13.
 (lb) - Max Horz 2=-435(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 6 except 2=-203(LC 8), 11=-473(LC 12), 8=-440(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) except 2=917(LC 20), 10=3021(LC 19), 11=1283(LC 19), 8=1267(LC 20), 6=892(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1328/305, 3-4=-1414/650, 4-5=-1382/668, 5-6=-1243/136
 BOT CHORD 2-11=-64/909, 10-11=-53/888, 8-10=-53/912, 6-8=-48/920
 WEBS 4-10=-2076/336, 3-11=-1082/781, 5-8=-1043/748

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-11 to 4-10-7, Interior(1) 4-10-7 to 9-4-0, Exterior(2) 9-4-0 to 13-8-12, Interior(1) 13-8-12 to 18-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=203, 11=473, 8=440.
 - 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1316 lb down and 334 lb up at 9-4-0, and 1316 lb down and 334 lb up at 9-4-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
 - 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



March 1, 2023

LOAD CASE(S) Standard
 Continued on page 2

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ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job J0722-3740	Truss PB4	Truss Type PIGGYBACK	Qty 4	Ply 1	Precision/Lot 25 Liberty Meadows/Harnet I56905215 Job Reference (optional)
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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 15:24:54 2023 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-148, 4-7=-147, 2-6=-49

Concentrated Loads (lb)

Vert: 4=-2600(F=-1300, B=-1300)

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

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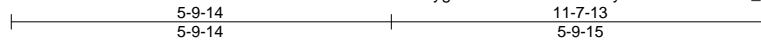
818 Soundside Road
Edenton, NC 27932

Job J0722-3740	Truss VA1	Truss Type GABLE	Qty 1	Ply 1	Precision/Lot 25 Liberty Meadows/Harnet I56905216
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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 15:24:55 2023 Page 1

ID:52SygMJAAHxrWTaExlrbuZyFiSD-SP6wamaY_wQlluvzgrM_69bh4KWVsaY6Lvd2EezgZjM



3x4 =

Scale = 1:35.3

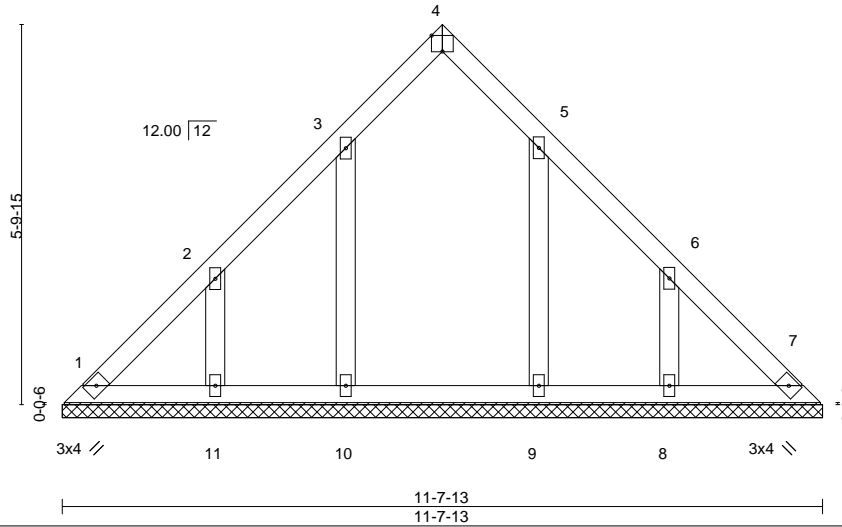


Plate Offsets (X,Y)--	[4:0-2-0,Edge]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 57 lb	FT = 20%

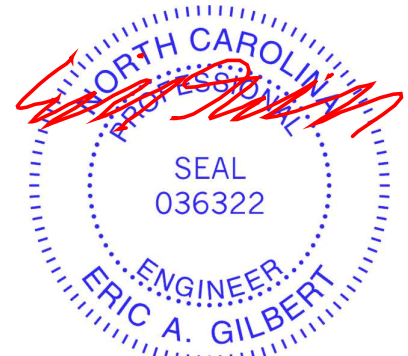
LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.2

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

REACTIONS. All bearings 11-7-13.
 (lb) - Max Horz 1=-164(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 10, 9 except 11=-168(LC 12), 8=-170(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 7, 11, 8 except 10=271(LC 19), 9=266(LC 20)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 10, 9 except (jt=lb) 11=168, 8=170.



March 1, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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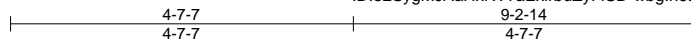
818 Soundside Road
 Edenton, NC 27932

Job J0722-3740	Truss VA2	Truss Type VALLEY	Qty 1	Ply 1	Precision/Lot 25 Liberty Meadows/Harnet I56905217
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Comtech, Inc. Fayetteville, NC - 28314,

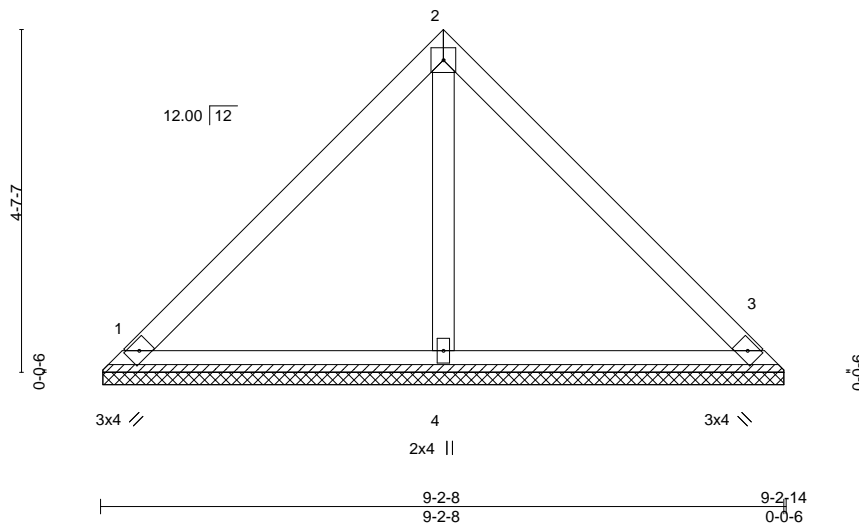
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 15:24:56 2023 Page 1

ID:52SygMJAaHxrWtaExlrbuZyFiSD-wbgn6aAkeYcM2U9EztDeN7phkroB1cGZZNbm5zgZjL



4x4 =

Scale = 1:31.1



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 0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S							
									Weight: 38 lb	FT = 20%

LUMBER-

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

BRACING-

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

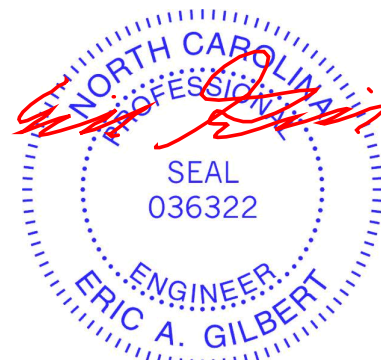
REACTIONS.

(size) 1=9-2-2, 3=9-2-2, 4=9-2-2
 Max Horz 1=-102(LC 8)
 Max Uplift 1=-25(LC 13), 3=-25(LC 13)
 Max Grav 1=194(LC 1), 3=194(LC 1), 4=296(LC 1)

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

NOTES-

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



March 1, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job J0722-3740	Truss VA3	Truss Type VALLEY	Qty 1	Ply 1	Precision/Lot 25 Liberty Meadows/Harnet I56905218
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Comtech, Inc. Fayetteville, NC - 28314,

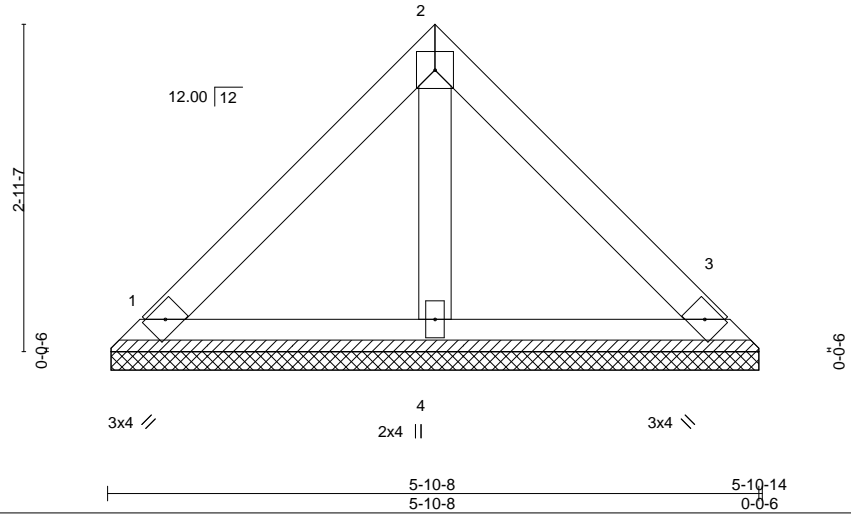
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 15:24:56 2023 Page 1

ID:52SgMJAAHxWTaExlrbuZyFiSD-wbgn6aAkEYcM2U9EZtDeN7r3kt7B1DGZZNbm5zgZjL



4x4 =

Scale = 1:20.8



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 0.11	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 23 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.2

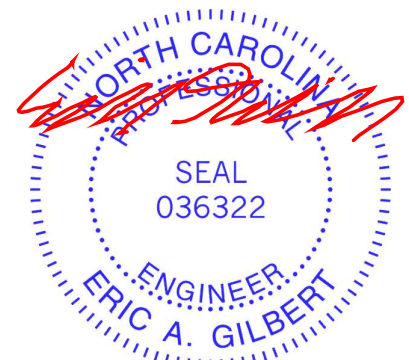
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-10-14 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-10-2, 3=5-10-2, 4=5-10-2
 Max Horz 1=62(LC 9)
 Max Uplift 1=23(LC 13), 3=23(LC 13)
 Max Grav 1=127(LC 1), 3=127(LC 1), 4=163(LC 1)

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

NOTES-

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



March 1, 2023

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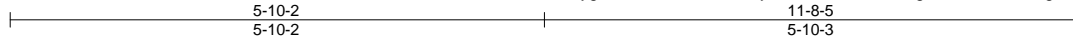
818 Soundside Road
 Edenton, NC 27932

Job J0722-3740	Truss VD1	Truss Type VALLEY	Qty 1	Ply 1	Precision/Lot 25 Liberty Meadows/Harnet I56905219
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 15:24:57 2023 Page 1

ID:52SygMJAAhXrWTaExlrbuZyFfISD-OoEh?SboVYgT_C3MnGPSBag?X7ClwU2PoD68lXzgzJK



4x4 =

Scale = 1:25.2

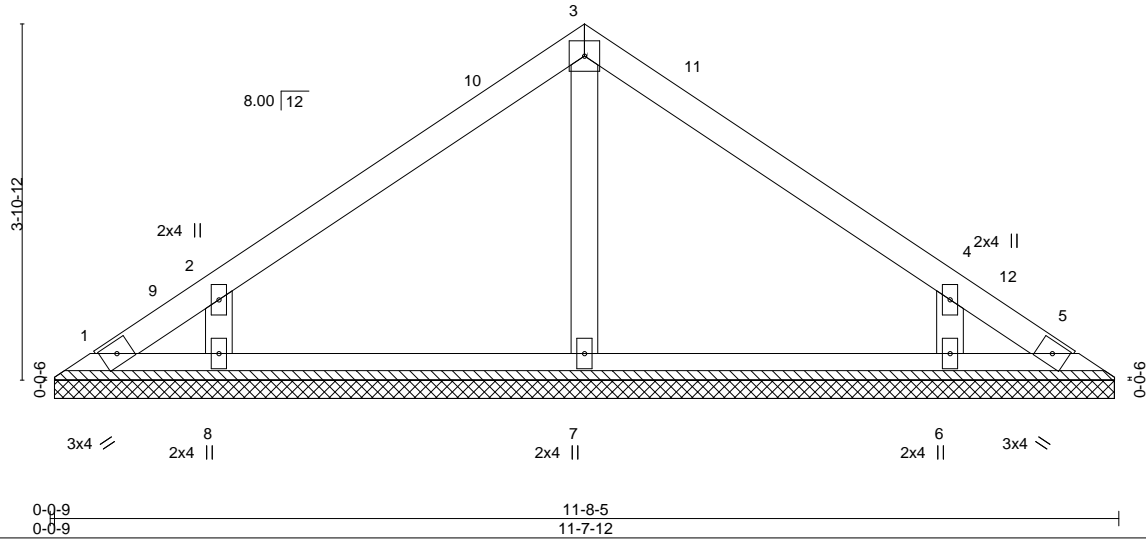


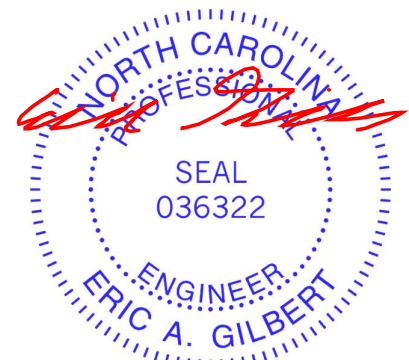
Plate Offsets (X,Y)--	[4:0-0-0,0-0-0]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15		TC 0.13	Vert(LL) n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.09	Vert(CT) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.04	Horz(CT) 0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 43 lb	FT = 20%

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

REACTIONS. All bearings 11-7-3.
 (lb) - Max Horz 1=86(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=263(LC 1), 8=317(LC 19), 6=316(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=-285/210, 4-6=-285/210

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 5-10-2, Exterior(2) 5-10-2 to 10-2-15, Interior(1) 10-2-15 to 11-2-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 8, 6.
 - Non Standard bearing condition. Review required.



March 1, 2023

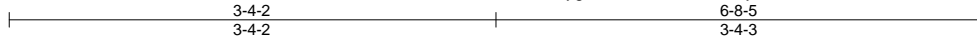
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job J0722-3740	Truss VD2	Truss Type VALLEY	Qty 1	Ply 1	Precision/Lot 25 Liberty Meadows/Harnet I56905220
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Comtech, Inc. Fayetteville, NC - 28314,

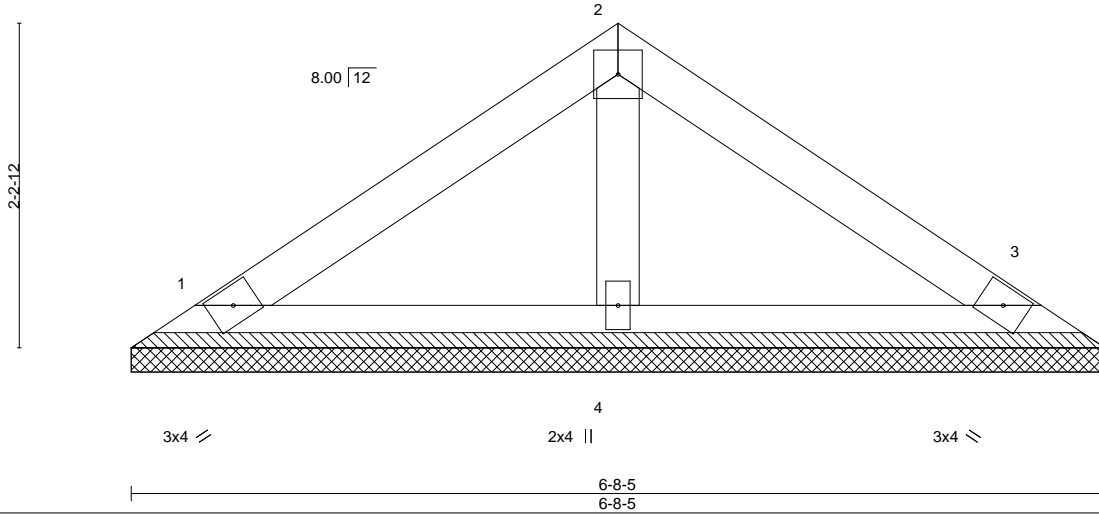
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Feb 28 15:24:58 2023 Page 1

ID:52SygMJAAHxRWaExlrbuZyFiSD-s_o3CocQGroKcMeYL_WhkoCBZXYQfxgY1tsirzzgZJj



4x4 =

Scale = 1:15.8



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.11	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.06	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 23 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.2

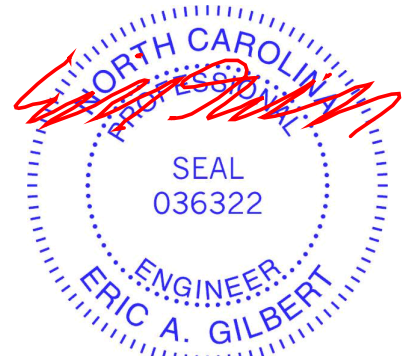
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=6-8-5, 3=6-8-5, 4=6-8-5
 Max Horz 1=-46(LC 8)
 Max Uplift 1=-20(LC 12), 3=-24(LC 13)
 Max Grav 1=124(LC 1), 3=125(LC 1), 4=209(LC 1)

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

NOTES-

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



March 1, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

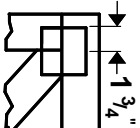
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
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Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

* Plate location details available in **MITek 20/20 software** or upon request.

PLATE SIZE

4 X 4

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

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8
dimensions shown in ft-in-sixteenths
(Drawings not to scale)



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

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

Lumber design values are in accordance with ANSI/TP1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: MII-7473 rev. 5/19/2020



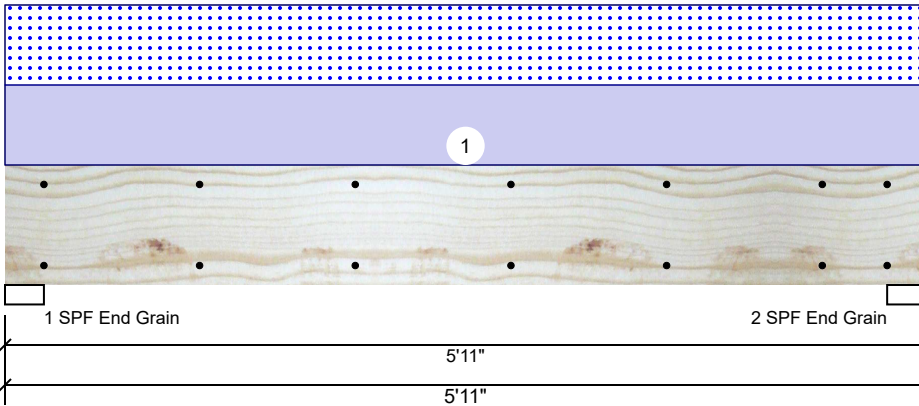
General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. 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.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. 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.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. 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.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Rewriting pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

BM1 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1835	1813	0	0
2	Vertical	0	1835	1813	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	41%	1835 / 1813	3648	L	D+S
2 - SPF End Grain	3.000"	Vert	41%	1835 / 1813	3648	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4734 ft-lb	2'11 1/2"	14423 ft-lb	0.328 (33%)	D+S	L
Unbraced	4734 ft-lb	2'11 1/2"	11027 ft-lb	0.429 (43%)	D+S	L
Shear	2395 lb	4'10 3/4"	7943 lb	0.302 (30%)	D+S	L
LL Defl inch	0.037 (L/1820)	2'11 1/2"	0.139 (L/480)	0.264 (26%)	S	L
TL Defl inch	0.074 (L/904)	2'11 1/2"	0.185 (L/360)	0.398 (40%)	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	Uniform			Top	613 PLF	0 PLF	613 PLF	0 PLF	0 PLF	A02
	Self Weight				7 PLF					

Notes

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

Lumber

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

chemicals

Handling & Installation

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

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

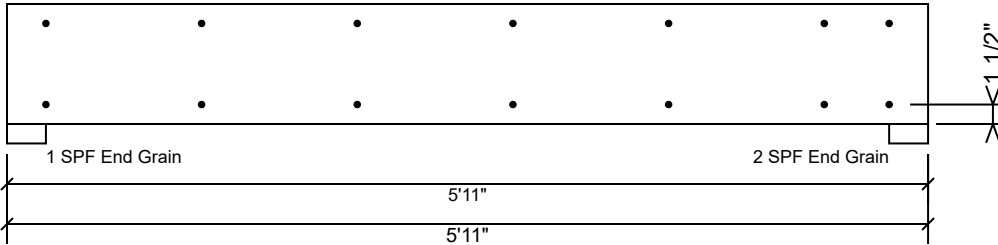
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www.metsawood.com/us

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BM1 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

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

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

Notes

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.

Lumber

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

chemicals

Handling & Installation

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

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

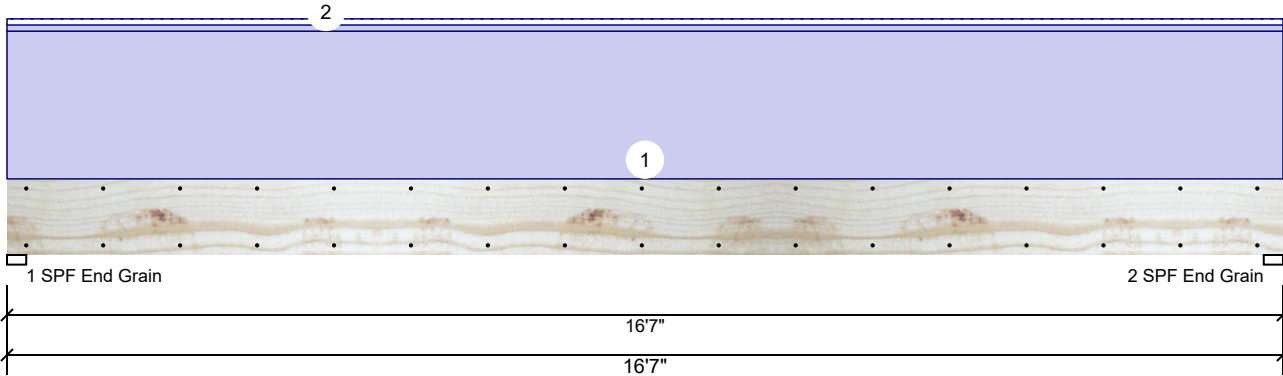
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GDH Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	2149	83	0	0
2	Vertical	0	2149	83	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	25%	2149 / 83	2232	L	D+S
2 - SPF End Grain	3.000"	Vert	25%	2149 / 83	2232	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	8513 ft-lb	8'3 1/2"	17919 ft-lb	0.475 (48%)	D	Uniform
Unbraced	8841 ft-lb	8'3 1/2"	8845 ft-lb	1.000 (100%)	D+S	L
Shear	1837 lb	1'2 7/8"	7980 lb	0.230 (23%)	D	Uniform
LL Defl inch	0.017 (L/11572)	8'3 9/16"	0.405 (L/480)	0.041 (4%)	S	L
TL Defl inch	0.453 (L/430)	8'3 9/16"	0.540 (L/360)	0.838 (84%)	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 10'8 3/4" o.c.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Top	240 PLF	0 PLF	0 PLF	0 PLF	0 PLF	C1-GE
2	Tie-In	0-0-0 to 16-7-0	0-6-0	Top	20 PSF	0 PSF	20 PSF	0 PSF	0 PSF	RAKE OH
	Self Weight				9 PLF					

Notes

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

Lumber

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

chemicals

Handling & Installation

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

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

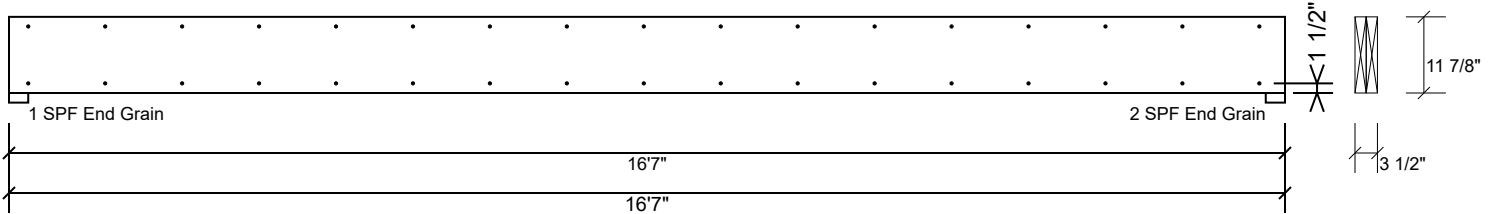
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GDH Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

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

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

Notes

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.

Lumber

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

chemicals

Handling & Installation

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

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

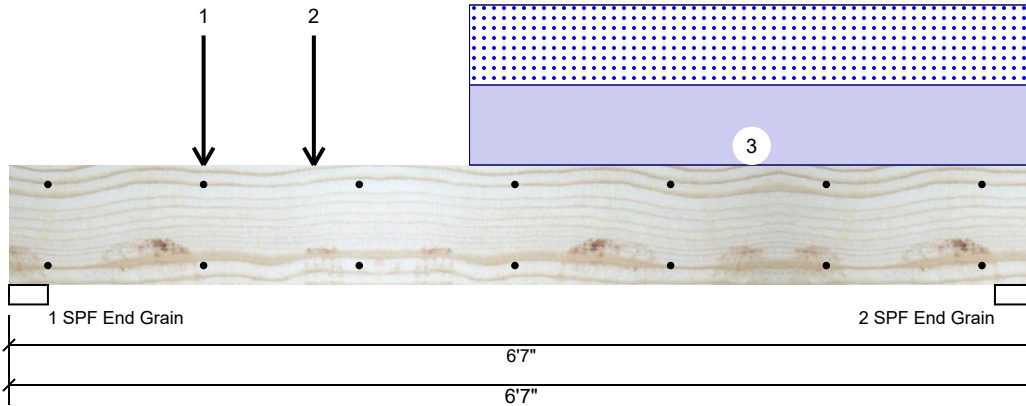
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BM4 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	2148	2124	0	0
2	Vertical	0	1663	1640	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	48%	2148 / 2124	4273	L	D+S
2 - SPF End Grain	3.000"	Vert	37%	1663 / 1640	3303	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	6600 ft-lb	1'11 1/2"	14423 ft-lb	0.458 (46%)	D+S	L
Unbraced	6600 ft-lb	1'11 1/2"	10370 ft-lb	0.636 (64%)	D+S	L
Shear	4271 lb	1' 1/4"	7943 lb	0.538 (54%)	D+S	L
LL Defl inch	0.058 (L/1296)	3' 3/4"	0.155 (L/480)	0.370 (37%)	S	L
TL Defl inch	0.116 (L/644)	3' 13/16"	0.207 (L/360)	0.559 (56%)	D+S	L

Design Notes

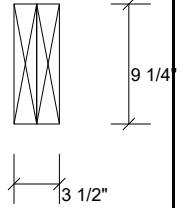
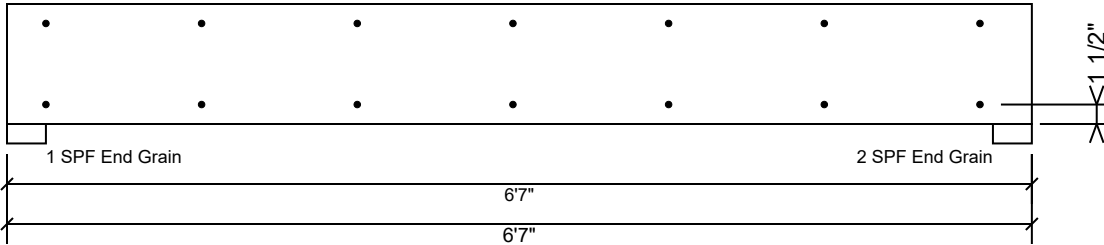
- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page 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	1-3-0		Top	672 lb	0 lb	672 lb	0 lb	0 lb	A05
	Bearing Length	0-3-8								
2	Point	1-11-8		Top	1671 lb	0 lb	1671 lb	0 lb	0 lb	A06
	Bearing Length	0-3-8								
3	Part. Uniform	2-11-8 to 6-7-0		Top	392 PLF	0 PLF	392 PLF	0 PLF	0 PLF	A07
	Self Weight				7 PLF					

<p>Notes</p> <p>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.</p> <p>Lumber</p> <ol style="list-style-type: none"> 1. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or corrosive chemicals 	<p>Handling & Installation</p> <ol style="list-style-type: none"> 1. LVL 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 	<p>4. For flat roofs provide proper drainage to prevent ponding</p>	<p>Manufacturer Info</p> <p>Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us</p>	<p>Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS</p>
			<p>This design is valid until 11/3/2024</p>	

BM4 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

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

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

Notes

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.

Lumber

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

chemicals

Handling & Installation

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

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

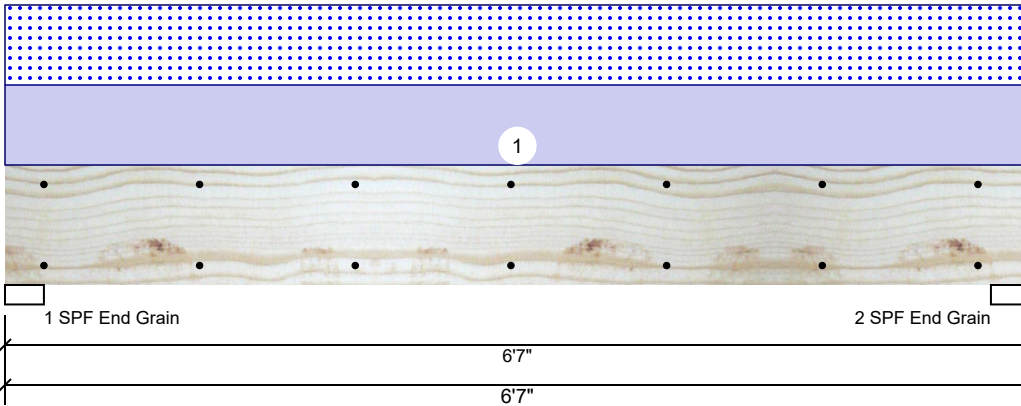
Manufacturer Info

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

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28314
910-864-TRUS



BM2 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1502	1478	0	0
2	Vertical	0	1502	1478	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	34%	1502 / 1478	2980	L	D+S
2 - SPF End Grain	3.000"	Vert	34%	1502 / 1478	2980	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4361 ft-lb	3' 3/2"	14423 ft-lb	0.302 (30%)	D+S	L
Unbraced	4361 ft-lb	3' 3/2"	10370 ft-lb	0.421 (42%)	D+S	L
Shear	2061 lb	1' 1/4"	7943 lb	0.259 (26%)	D+S	L
LL Defl inch	0.040 (L/1853)	3' 3/2"	0.155 (L/480)	0.259 (26%)	S	L
TL Defl inch	0.081 (L/919)	3' 3/2"	0.207 (L/360)	0.392 (39%)	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	Uniform			Top	449 PLF	0 PLF	449 PLF	0 PLF	0 PLF	A02
	Self Weight				7 PLF					

Notes

Calculated Structural 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.

Lumber

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

Handling & Installation

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

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

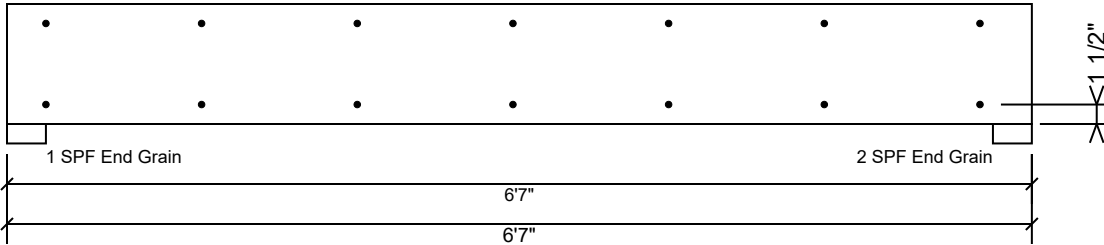
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BM2 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

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

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

Notes

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.

Lumber

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

chemicals

Handling & Installation

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

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

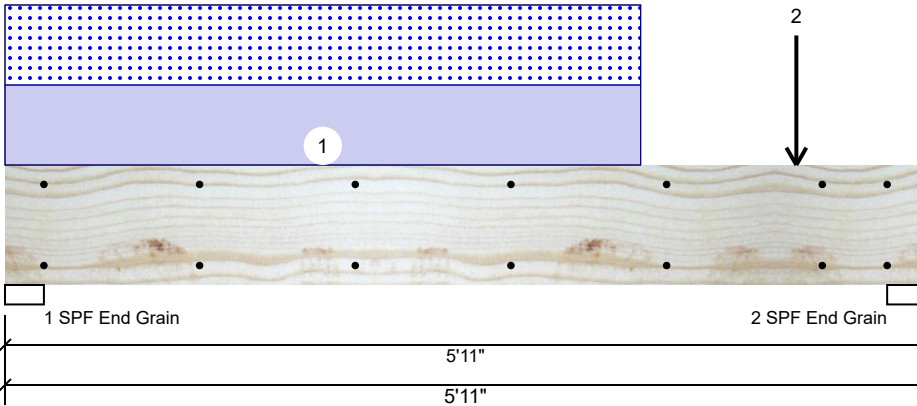
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BM3 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1770	1748	0	0
2	Vertical	0	3001	2979	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	40%	1770 / 1748	3518	L	D+S
2 - SPF End Grain	3.000"	Vert	68%	3001 / 2979	5980	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5104 ft-lb	3'3 3/16"	14423 ft-lb	0.354 (35%)	D+S	L
Unbraced	5104 ft-lb	3'3 3/16"	11027 ft-lb	0.463 (46%)	D+S	L
Shear	4741 lb	4'10 3/4"	7943 lb	0.597 (60%)	D+S	L
LL Defl inch	0.040 (L/1650)	3'1 1/16"	0.139 (L/480)	0.291 (29%)	S	L
TL Defl inch	0.081 (L/821)	3'1"	0.185 (L/360)	0.439 (44%)	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	Part. Uniform	0-0-0 to 4-1-0		Top	535 PLF	0 PLF	535 PLF	0 PLF	0 PLF	A03
2	Point	5-1-0		Top	2543 lb	0 lb	2543 lb	0 lb	0 lb	A04
	Bearing Length	0-3-8								
	Self Weight				7 PLF					

Notes

Calculated Structural 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.

Lumber

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

chemicals

Handling & Installation

1. LVL 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

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

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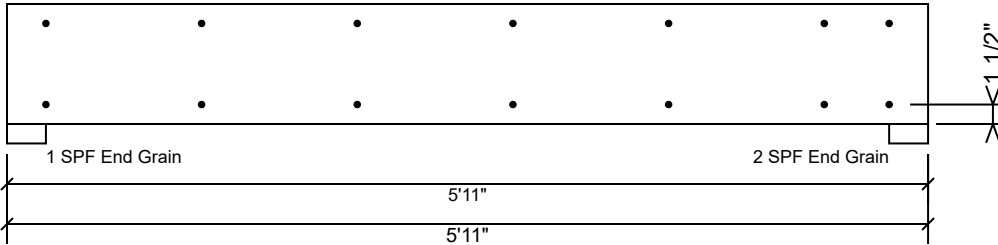
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BM3 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

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

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

Notes

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.

Lumber

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

chemicals

Handling & Installation

1. LVL 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
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