

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 24010110 BCTH-68

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by The Building Center.

Pages or sheets covered by this seal: I62949644 thru I62949658

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

North Carolina COA: C-0844



January 10,2024

Gilbert, Eric

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

Job	Truss	Truss Type	Qty	Ply	BCTH-68
24010110	F2	Floor Girder	,	1	162949644
24010110	F3	Floor Girder	'	'	Job Reference (optional)

Gastonia, NC - 28052,

8.730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 16:14:31 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-MkpQGYd4AemCVGPHvQshA3WpVjERSdKyB7doxvzx1gs

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

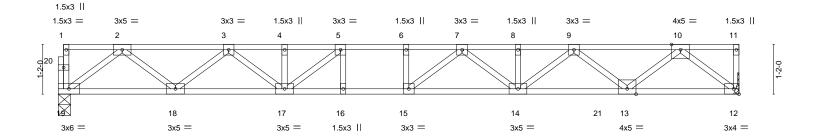
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



1-4-4

Scale = 1:27.0



	15-11-12 15-11-12					
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING-         2-0-0           Plate Grip DOL         1.00           Lumber DOL         1.00           Rep Stress Incr         NO	CSI. TC 0.71 BC 0.88 WB 0.56	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         -0.23         14-15         >818         360           Vert(CT)         -0.32         14-15         >591         240           Horz(CT)         0.06         12         n/a         n/a	PLATES GRIP MT20 244/190		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 82 lb FT = 20%F, 11%E		

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

2x4 SP No.3(flat) WEBS

> 19=0-3-8, 12=Mechanical Max Grav 19=890(LC 1), 12=1112(LC 1)

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

TOP CHORD 2-3=-1859/0, 3-4=-3019/0, 4-5=-3019/0, 5-6=-3442/0, 6-7=-3442/0, 7-8=-3159/0, 8-9=-3159/0, 9-10=-2122/0 **BOT CHORD** 18-19=0/1114, 17-18=0/2565, 16-17=0/3442, 15-16=0/3442, 14-15=0/3418, 13-14=0/2763, 12-13=0/1224 2-19=-1395/0, 2-18=0/970, 3-18=-919/0, 3-17=0/579, 5-17=-749/0, 10-12=-1562/0, 10-13=0/1169, 9-13=-835/0, **WEBS** 

9-14=0/505, 7-14=-331/0, 7-15=-237/334

### NOTES-

REACTIONS.

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.
- 5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Vert: 19-21=-10, 12-21=-95(B=-85), 1-11=-100



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

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



Job	Truss	Truss Type	Qty	Ply	BCTH-68
04040440					162949645
24010110		Floor	3	1	Job Reference (optional)

The Building Center, Gastonia, NC - 28052,

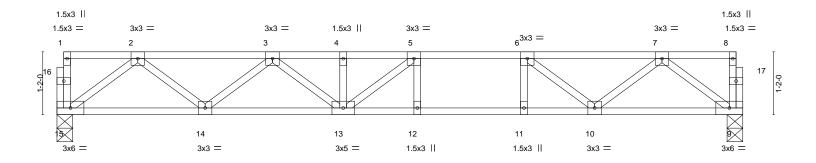
8.730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 16:14:31 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7Hxl-MkpQGYd4AemCVGPHvQshA3WrkjFRSg0yB7doxvzx1gs

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

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

except end verticals.





	12-8-12 12-8-12										
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.63	Vert(LL)	-0.15 12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.20 12-13	>764	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.03 9	n/a	n/a		
BCDL	5.0	Code IRC2015/Ti	PI2014	Matri	x-S					Weight: 65 lb	FT = 20%F, 11%E

**BOT CHORD** 

LUMBER-BRACING-TOP CHORD

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

REACTIONS. (size) 15=0-3-8, 9=0-3-8

Max Grav 15=680(LC 1), 9=680(LC 1)

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

2-3=-1328/0, 3-4=-2022/0, 4-5=-2022/0, 5-6=-1935/0, 6-7=-1334/0 TOP CHORD

14-15=0/838, 13-14=0/1791, 12-13=0/1935, 11-12=0/1935, 10-11=0/1935, 9-10=0/817 **BOT CHORD** 

 $2-15 = -1049/0, \ 2-14 = 0/638, \ 3-14 = -603/0, \ 3-13 = 0/294, \ 5-13 = -239/280, \ 7-9 = -1022/0, \ 7-10 = 0/673, \ 6-10 = -766/0, \ 7-10 = 0/673, \ 6-10 = -766/0, \ 7-10 = 0/673, \ 6-10 = -766/0, \ 7-10 = 0/673, \ 6-10 = -766/0, \ 7-10 = 0/673, \ 7$ WEBS

### NOTES-

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





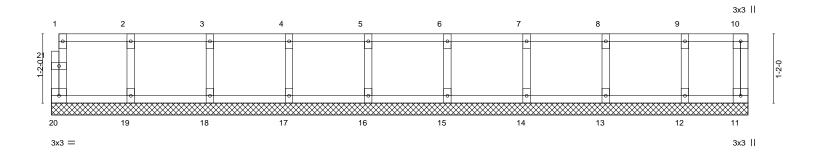
Job	Truss	Truss Type	Qty	Ply	BCTH-68	٦
24010110	L02	GABLE	1	1	162949646	
24010110	LUZ	GABLE	'	'	Job Reference (optional)	

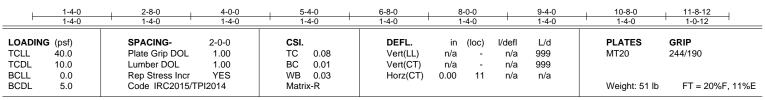
Gastonia, NC - 28052,

8.730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 16:14:37 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-BuBhXcirlUWMDBsRGhz5PKm?n8UNsT0qa3579Zzx1gm

0118

Scale = 1:19.4





**BOT CHORD** 

LUMBER-BRACING-

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

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

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

REACTIONS. All bearings 11-8-12.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

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

### NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.





Job	Truss	Truss Type	Qty	Ply	BCTH-68	
	=-		_		162949647	7
24010110	F2	Floor	5	1	Job Reference (optional)	

Gastonia, NC - 28052,

8.730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 16:14:30 2024 Page 1 ID:sWUVkoBcB7eFy0GbrlE06iy7Hxl-uXG23CcSPKeLt6q5MjLSdszjsJsgjCwozTuFPTzx1gt

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

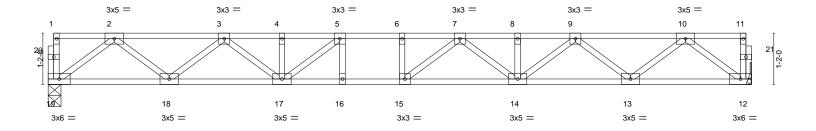
Rigid ceiling directly applied or 2-2-0 oc bracing.

except end verticals.





0-1-8 Scale = 1:26.2



LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING-         2-0-0           Plate Grip DOL         1.00           Lumber DOL         1.00           Rep Stress Incr         YES	CSI. TC 0.51 BC 0.98 WB 0.44	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         -0.22 14-15         >862         360           Vert(CT)         -0.30 14-15         >623         240           Horz(CT)         0.06         12         n/a         n/a	PLATES         GRIP           MT20         244/190
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 83 lb FT = 20%F, 11%E

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-TOP CHORD

2x4 SP No.2(flat) 2x4 SP No.2(flat)

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

REACTIONS. 19=0-3-8, 12=Mechanical Max Grav 19=859(LC 1), 12=859(LC 1)

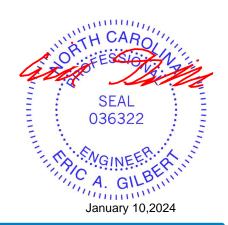
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1781/0, 3-4=-2873/0, 4-5=-2873/0, 5-6=-3224/0, 6-7=-3224/0, 7-8=-2886/0, 8-9=-2886/0, 9-10=-1779/0 **BOT CHORD** 18-19=0/1074, 17-18=0/2451, 16-17=0/3224, 15-16=0/3224, 14-15=0/3164, 13-14=0/2454, 12-13=0/1073  $2-19=-1344/0,\ 2-18=0/921,\ 3-18=-872/0,\ 3-17=0/538,\ 5-17=-650/0,\ 10-12=-1343/0,\ 10-13=0/919,\ 9-13=-879/0,\ 10-12=-1343/0,\ 10-13=0/919,\ 10-13=-1343/0,\ 10-13=0/919,\ 10-13=-1343/0,\ 10-13=0/919,\ 10-13=-1343/0,\ 10-13=0/919,\ 10-13=-1343/0,\ 10-13=0/919,\ 10-13=-1343/0,\ 10-13=0/919,\ 10-13=-1343/0,\ 10-13=0/919,\ 10-13=-1343/0,\ 10-13=0/919$ **WEBS** 

9-14=0/552, 7-14=-355/0, 7-15=-188/378

### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.





Job	Truss	Truss Type	Qty	Ply	BCTH-68
24010110	E4	Eleor	1	1	162949648
24010110		Floor	'	'	Job Reference (optional)

The Building Center, Gastonia, NC - 28052,

8.730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 16:14:28 2024 Page 1 ID:sWUVkoBcB7eFy0GbrlE06iy7HxI-y98HeXbBtjNdeogiEII\_YRuMjWEzFIKWV9P8Kazx1gv

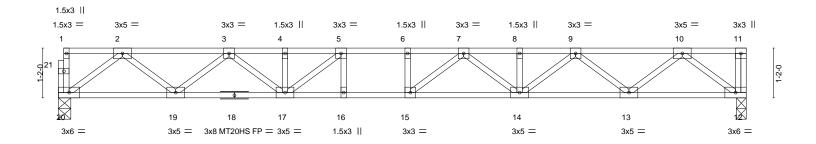
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.



1-4-8 Scale = 1:27.0



	5-4-8 5-4-8	+	16-1-8 10-9-0						
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.55 BC 0.74 WB 0.44 Matrix-S	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         -0.22 14-15         >880         360           Vert(CT)         -0.30 14-15         >636         240           Horz(CT)         0.05         12         n/a         n/a	PLATES GRIP MT20 244/190 MT20HS 187/143 Weight: 84 lb FT = 20%F, 11%E					

TOP CHORD

**BOT CHORD** 

LUMBER-BRACING-

TOP CHORD 2x4 SP No.2(flat)

2x4 SP No.2(flat) \*Except\* BOT CHORD 12-18: 2x4 SP No.1(flat)

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 20=0-3-8, 12=0-2-12 Max Grav 20=867(LC 1), 12=873(LC 1)

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

TOP CHORD 2-3=-1802/0, 3-4=-2910/0, 4-5=-2910/0, 5-6=-3282/0, 6-7=-3282/0, 7-8=-2926/0,

8-9=-2926/0, 9-10=-1799/0 19-20=0/1084, 17-19=0/2481, 16-17=0/3282, 15-16=0/3282, 14-15=0/3214, 13-14=0/2484,

12-13=0/1084

2-20=-1358/0, 2-19=0/934, 3-19=-884/0, 3-17=0/548, 10-12=-1360/0, 10-13=0/931, WFBS

9-13=-892/0, 9-14=0/564, 7-14=-367/0, 7-15=-181/396, 5-17=-685/0

### NOTES-

BOT CHORD

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.





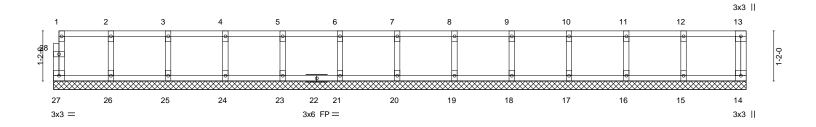
Job	Truss	Truss Type	Qty	Ply	BCTH-68	7
24010110	L01	GABLE	1	1	162949649	
24010110	1201	GABLE	'	'	Job Reference (optional)	

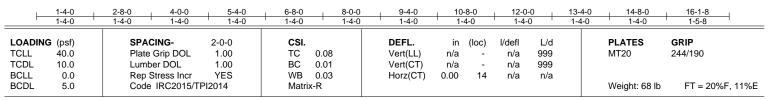
Gastonia, NC - 28052, The Building Center,

8.730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 16:14:36 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7Hxl-jhdJKGhC\_AOVb1HFizSst7Dq2k8770mhLPLZc6zx1gn

0118

Scale = 1:26.8





LUMBER-BRACING-

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

except end verticals.

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

REACTIONS. All bearings 16-1-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 27, 14, 26, 25, 24, 23, 21, 20, 19, 18, 17, 16, 15

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

### NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.





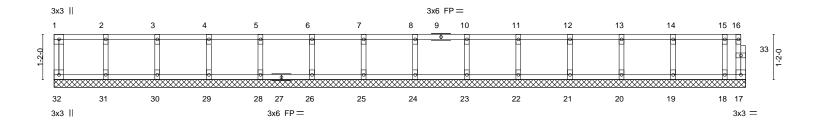
Job	Truss	Truss Type	Qty	Ply	BCTH-68	7
24010110	L03	GABLE	1	1	162949650	
24010110	203	GABLE	'	'	Job Reference (optional)	

Gastonia, NC - 28052, The Building Center,

8.730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 16:14:38 2024 Page 1 ID:sWUVkoBcB7eFy0GbrlE06iy7HxI-f4l3lyiTWoeDrLRdqOUKyYJAVYqTbwG\_ojqgh?zx1gl

0-11-8

Scale = 1:29.8



1-4-0	2-8-0	6-8-0   8-0-0 1-4-0   1-4-0	9-4-0   10-8-0   12-0-0   13-4-0   14-8 1-4-0   1-4-0   1-4-0   1-4-0   1-4-0	
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.08 BC 0.02 WB 0.03 Matrix-R	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         n/a         -         n/a         999           Vert(CT)         n/a         -         n/a         999           Horz(CT)         0.00         17         n/a         n/a	PLATES GRIP MT20 244/190  Weight: 76 lb FT = 20%F, 11%E

LUMBER-BRACING-

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

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

except end verticals.

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

REACTIONS. All bearings 17-10-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 28, 26, 25, 24, 23, 22, 21, 20, 19, 18

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

### NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.



Job Truss Truss Type Qty Ply BCTH-68 162949651 Floor 24010110 F5 Job Reference (optional) 8.730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 16:14:32 2024 Page 1

The Building Center,

1-3-0

Gastonia, NC - 28052,

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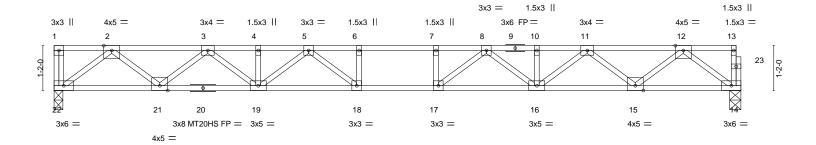
Structural wood sheathing directly applied or 5-6-6 oc purlins,

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

except end verticals.

1-10-8

Scale = 1:30.0



-	17-10-8 17-10-8								
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP					
TCLL 40.0	Plate Grip DOL 1.00	TC 0.68	Vert(LL) -0.30 17-18 >696 360	MT20 244/190					
TCDL 10.0	Lumber DOL 1.00	BC 0.83	Vert(CT) -0.42 17-18 >506 240	MT20HS 187/143					
BCLL 0.0	Rep Stress Incr YES	WB 0.52	Horz(CT) 0.07 14 n/a n/a						
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 91 lb FT = 20%F, 11%E					

TOP CHORD

**BOT CHORD** 

LUMBER-BRACING-

TOP CHORD 2x4 SP No.2(flat)

2x4 SP No.2(flat) \*Except\* BOT CHORD

14-20: 2x4 SP No.1(flat)

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 22=0-2-12, 14=0-3-8 Max Grav 22=969(LC 1), 14=963(LC 1)

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

2-3=-2042/0, 3-4=-3400/0, 4-5=-3400/0, 5-6=-4057/0, 6-7=-4057/0, 7-8=-4057/0,

8-10=-3400/0, 10-11=-3400/0, 11-12=-2041/0  $21-22=0/1211,\ 19-21=0/2838,\ 18-19=0/3809,\ 17-18=0/4057,\ 16-17=0/3809,\ 15-16=0/2838,\ 18-19=0/3809,\ 17-18=0/4057,\ 18-19=0/3809,\ 18-1$ 

14-15=0/1210 WFBS

2-22=-1519/0, 2-21=0/1081, 3-21=-1037/0, 3-19=0/717, 5-19=-522/0, 5-18=-73/638,

 $12 - 14 = -1516/0,\ 12 - 15 = 0/1082,\ 11 - 15 = -1038/0,\ 11 - 16 = 0/717,\ 8 - 16 = -522/0,\ 8 - 17 = -73/638,$ 

7-17=-285/0, 6-18=-285/0

### NOTES-

BOT CHORD

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 22.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.





Job	Truss	Truss Type	Qty	Ply	BCTH-68
04040440	F0	Floor			162949652
24010110	Fb	Floor	ь	1	Job Reference (optional)

Gastonia, NC - 28052,

8.730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 16:14:33 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-I6xAhEfKiF0wkZZg1ru9FUbBGXw4wYYFfR6v0ozx1gq

Structural wood sheathing directly applied or 5-8-14 oc purlins,

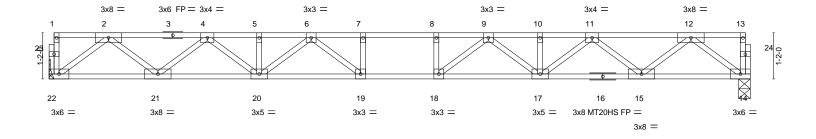
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.





0-1-8 Scale = 1:29.1



	17-8-12 17-8-12										
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP							
TCLL 40.0	Plate Grip DOL 1.00	TC 0.62	Vert(LL) -0.29 18-19 >713 360	MT20 244/190							
TCDL 10.0	Lumber DOL 1.00	BC 0.80	Vert(CT) -0.40 18-19 >519 240	MT20HS 187/143							
BCLL 0.0	Rep Stress Incr YES	WB 0.51	Horz(CT) 0.07 14 n/a n/a								
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 90 lb FT = 20%F, 11%E							

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-TOP CHORD 2x4 SP No.2(flat)

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

14-16: 2x4 SP No.2(flat)

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 22=Mechanical, 14=0-3-8 Max Grav 22=955(LC 1), 14=955(LC 1)

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

TOP CHORD 2-4=-2021/0, 4-5=-3360/0, 5-6=-3360/0, 6-7=-3993/0, 7-8=-3993/0, 8-9=-3993/0,

9-10=-3360/0, 10-11=-3360/0, 11-12=-2021/0

 $21 - 22 = 0/1200,\ 20 - 21 = 0/2809,\ 19 - 20 = 0/3760,\ 18 - 19 = 0/3993,\ 17 - 18 = 0/3760,\ 15 - 17 = 0/2809,$ 

14-15=0/1200 **WEBS** 2-22=-1502/0, 2-21=0/1069, 4-21=-1025/0, 4-20=0/704, 12-14=-1502/0, 12-15=0/1070,

11-15=-1025/0, 11-17=0/704, 9-17=-511/0, 9-18=-83/610, 6-20=-511/0, 6-19=-83/610,

7-19=-270/0, 8-18=-270/0

### NOTES-

BOT CHORD

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated. 3) All plates are 1.5x3 MT20 unless otherwise indicated.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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

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



Job	Truss	Truss Type	Qty	Ply	BCTH-68	
04040440	F7				162949653	3
24010110	F/	Floor	2	1	Job Reference (optional)	

Gastonia, NC - 28052,

8.730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 16:14:34 2024 Page 1  $ID:sWUVkoBcB7eFy0GbrIE06iy7Hxl-mJVZvafyTZ8nMj8sbZPOoi8N\_xFEf\_ZOu5sSYEzx1gp$ 

Structural wood sheathing directly applied or 5-8-1 oc purlins,

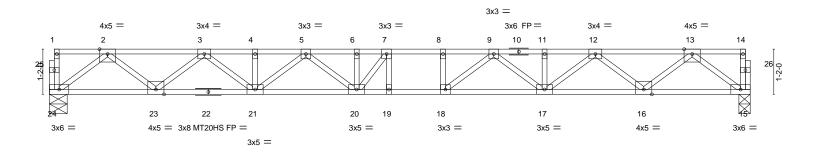
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

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

0-8-8 1-3-4

0-1-8 Scale = 1:29.8



	8-0-0 8-0-0	8-8-8 9-0-10 0-8-8 0-3-6 0-0-12	18-1-4 9-0-10	<del></del>
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	TC 0.56 V6 BC 0.87 V6	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         -0.32         19         >659         360           Vert(CT)         -0.45         19         >480         240           Horz(CT)         0.07         15         n/a         n/a	PLATES         GRIP           MT20         244/190           MT20HS         187/143           Weight: 95 lb         FT = 20%F, 11%E

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-2x4 SP No.2(flat) TOP CHORD

2x4 SP No.2(flat) \*Except\* BOT CHORD

15-22: 2x4 SP No.1(flat)

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 24=0-5-8, 15=0-3-8

Max Grav 24=976(LC 1), 15=976(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2073/0, 3-4=-3461/0, 4-5=-3461/0, 5-6=-4136/0, 6-7=-4136/0, 7-8=-4164/0,

8-9=-4164/0, 9-11=-3460/0, 11-12=-3460/0, 12-13=-2073/0

BOT CHORD 23 - 24 = 0/1227, 21 - 23 = 0/2885, 20 - 21 = 0/3892, 19 - 20 = 0/4164, 18 - 19 = 0/4164, 17 - 18 = 0/3891, 19 - 20 = 0/4164, 18 - 19 = 0/4164, 17 - 18 = 0/3891, 19 - 20 = 0/4164, 18 - 19 = 0/4164, 17 - 18 = 0/3891, 19 - 20 = 0/4164, 18 - 19 =

16-17=0/2884, 15-16=0/1227

WFBS 2-24=-1536/0, 2-23=0/1102, 3-23=-1057/0, 3-21=0/735, 5-21=-551/0, 5-20=0/372,

 $13-15 = -1537/0, \ 13-16 = 0/1102, \ 12-16 = -1055/0, \ 12-17 = 0/735, \ 9-17 = -550/0, \ 9-18 = -42/598, \ 9-17 = -550/0, \ 9-18 = -550/0, \ 9-18 = -550/0, \ 9-18 = -550/0, \ 9-18 = -550/0$ 

### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 1.5x3 MT20 unless otherwise indicated.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.





Job Truss Truss Type Qty Ply BCTH-68 162949654 24010110 F8 Floor Girder Job Reference (optional)

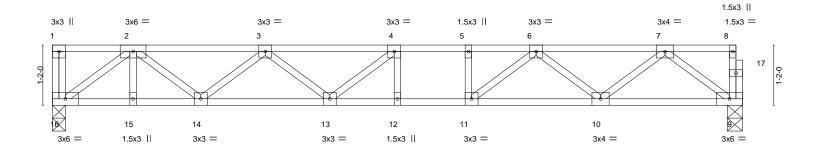
The Building Center, 1-3-0

Gastonia, NC - 28052,

8.730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 16:14:35 2024 Page 1 ID:sWUVkoBcB7eFy0GbrlE06iy7HxI-EV3x6wgaEtGe\_tj38GwdKvhX\_KcDOUAY6lb04gzx1go

1-3-0 0118

Scale = 1:22.3



	13-4-8 13-4-8										
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.61	Vert(LL)	-0.13 12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.18 12-13	>864	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.37	Horz(CT)	0.03 9	n/a	n/a		
BCDL	5.0	Code IRC2015/TP	12014	Matrix	k-S					Weight: 70 lb	FT = 20%F, 11%E

**BOT CHORD** 

LUMBER-BRACING-TOP CHORD

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

2x4 SP No.3(flat) WEBS

> 16=0-3-0, 9=0-3-8 (size)

Max Grav 16=989(LC 1), 9=749(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1799/0, 3-4=-2391/0, 4-5=-2418/0, 5-6=-2418/0, 6-7=-1491/0

**BOT CHORD** 15-16=0/1284, 14-15=0/1284, 13-14=0/2273, 12-13=0/2418, 11-12=0/2418, 10-11=0/2050, 9-10=0/926

2-16=-1586/0, 2-14=0/658, 3-14=-616/0, 7-9=-1159/0, 7-10=0/735, 6-10=-728/0, 6-11=0/623 WEBS

### NOTES-

REACTIONS.

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 3) CAUTION, Do not erect truss backwards.
- 4) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 381 lb down at 1-4-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Vert: 9-16=-10, 1-8=-100

Concentrated Loads (lb) Vert: 2=-301(B)

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

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

except end verticals.

January 10,2024

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

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



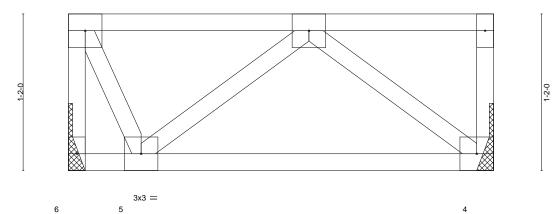
Job Truss Truss Type Qty Ply BCTH-68 162949655 24010110 F10 Floor Girder Job Reference (optional)

The Building Center, Gastonia, NC - 28052,

8.730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 16:14:29 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-QLigstbpe1WUGyFvo?qD5eRdBwib\_pofkp8it0zx1gu



Scale = 1:8.6



1.5x3 || 3x3 = 3-2-0

TOP CHORD

**BOT CHORD** 

SPACING-CSI. DEFL. I/defI L/d 2-0-0 (loc) Plate Grip DOL Vert(LL) -0.00 >999 360 1.00 TC 0.18 Lumber DOL 1.00 ВС 0.20 Vert(CT) -0.01 >999 240 4-5 Rep Stress Incr NO WB 0.17 Horz(CT) 0.00 n/a n/a

Weight: 18 lb FT = 20%F, 11%E

GRIP

244/190

**PLATES** 

MT20

Structural wood sheathing directly applied or 3-2-0 oc purlins,

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

except end verticals.

LUMBER-BRACING-

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

LOADING (psf)

**TCLL** 

**TCDL** 

**BCLL** 

BCDL

40.0

10.0

0.0

5.0

6=Mechanical, 4=Mechanical Max Grav 6=401(LC 1), 4=475(LC 1)

Matrix-P

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

Code IRC2015/TPI2014

TOP CHORD 1-6=-404/0 **BOT CHORD** 4-5=0/525

2-4=-670/0, 2-5=-484/0, 1-5=0/366 WEBS

### NOTES-

REACTIONS.

- 1) Refer to girder(s) for truss to truss connections.
- 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 3) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 541 lb down at 1-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Vert: 4-6=-10. 1-3=-100 Concentrated Loads (lb) Vert: 2=-541(F)





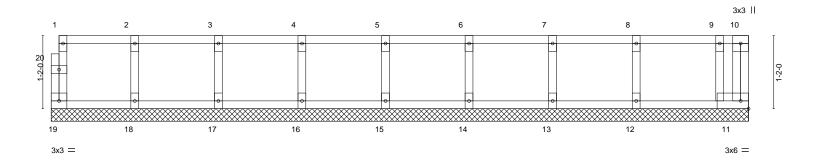
Job	Truss	Truss Type	Qty	Ply	BCTH-68	٦
	l				162949656	ان
24010110	L04	GABLE	1	1		
					Job Reference (optional)	

Gastonia, NC - 28052,

8.730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 16:14:39 2024 Page 1 ID:sWUVkoBcB7eFy0GbrlE06iy7HxI-7GIRyHj5H5m4SU0qN6?ZVIrL8yAZKNV71NaDDRzx1gk

0<sub>1</sub>1<sub>7</sub>8

Scale = 1:18.4



1-4-0 1-4-0	2-8-0 1-4-0	4-0-0 1-4-0	5-4-0   6-8-0 1-4-0   1-4-0	8-0-0 1-4-0		10-8-0 1-4-0	11-1-8
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	Plate Grip DOL 1. Lumber DOL 1.	D-0 CSI. 00 TC 00 BC ES WB 4 Matrix	0.09 Vert(LL) 0.03 Vert(CT) 0.03 Horz(CT) x-R	in (loc) l, n/a - n/a - 0.00 11	/defl L/d n/a 999 n/a 999 n/a n/a		<b>GRIP</b> 244/190  FT = 20%F, 11%E

LUMBER-BRACING-

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

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

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

except end verticals.

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

REACTIONS. All bearings 11-1-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 19, 11, 18, 17, 16, 15, 14, 13, 12

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

### NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.



Job	Truss	Truss Type	Qty	Ply	BCTH-68
24010110	Fo	Floor	1	1	162949657
24010110	159	Floor	'	'	Job Reference (optional)

Gastonia, NC - 28052, The Building Center,

8.730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 16:14:36 2024 Page 1 ID:sWUVkoBcB7eFy0GbrlE06iy7HxI-jhdJKGhC\_AOVb1HFizSst7Dnyk1X7yyhLPLZc6zx1gn

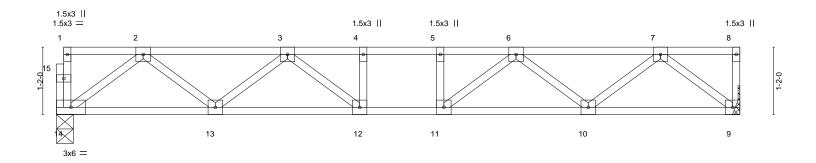
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.



Scale = 1:19.9



	11-10-0 11-10-0											<del></del> _
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC.	0.28	Vert(LL)	-0.07	12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	-0.09	12	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code IRC2015/TF	PI2014	Matri	x-S						Weight: 60 lb	FT = 20%F, 11%E

TOP CHORD

**BOT CHORD** 

LUMBER-BRACING-

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

WEBS 2x4 SP No.3(flat)

> 14=0-3-8, 9=Mechanical Max Grav 14=634(LC 1), 9=641(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1217/0, 3-4=-1769/0, 4-5=-1769/0, 5-6=-1769/0, 6-7=-1195/0 **BOT CHORD** 13-14=0/779, 12-13=0/1619, 11-12=0/1769, 10-11=0/1606, 9-10=0/750

 $2 - 14 = -975/0, \ 2 - 13 = 0/570, \ 3 - 13 = -523/0, \ 3 - 12 = -24/370, \ 7 - 9 = -958/0, \ 7 - 10 = 0/580, \ 6 - 10 = -535/0, \ 6 - 11 = -13/381$ WEBS

### NOTES-

REACTIONS.

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x3 MT20 unless otherwise indicated.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.





Job Truss Truss Type Qty BCTH-68 162949658 24010110 L05 **GABLE** Job Reference (optional) 8.730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 16:14:39 2024 Page 1 The Building Center, Gastonia, NC - 28052, ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-7GIRyHj5H5m4SU0qN6?ZVIrLEyAjKNW71NaDDRzx1gk 0-1-8 2 3 5 1 3x3 || Scale = 1:8.9 11 10 9 8 6 3x3 || 3x3 =1-4-0 1-4-0 1-4-0 0-8-12 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL 40.0 Plate Grip DOL 1.00 TC 0.08 Vert(LL) n/a 999 244/190 n/a MT20 **TCDL** 10.0 Lumber DOL 1.00 ВС 0.02 Vert(CT) n/a n/a 999

0.00

6

n/a

except end verticals.

n/a

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

Structural wood sheathing directly applied or 4-8-12 oc purlins,

Weight: 23 lb

FT = 20%F, 11%E

Horz(CT)

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

**BCLL** 

**BCDL** 

2x4 SP No.2(flat) TOP CHORD

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

0.0

5.0

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

REACTIONS. All bearings 4-8-12.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 10, 6, 9, 8, 7

Rep Stress Incr

Code IRC2015/TPI2014

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

### NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

YES

WB

Matrix-R

0.03

- 4) Gable studs spaced at 1-4-0 oc.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.



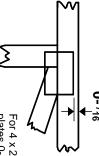


### Symbols

## 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- <sup>1</sup>/16" from outside edge of truss.

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

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

### PLATE SIZE

4 × 4

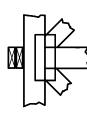
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

### LATERAL BRACING LOCATION



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

### **BEARING**



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

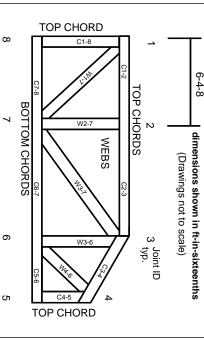
### Industry Standards:

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

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

ANSI/TPI1: DSB-22:

## Numbering System



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

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

## Product Code Approvals

ICC-ES Reports:

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

## Design General Notes

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

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

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

# ▲ General Safety Notes

## Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.