

RE: 24052573 BCTH-30

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: TRUE HOMES RALEIGH Project Name: 24052573 Lot/Block: 30 Model: Lucas TH @ Model: Lucas TH @ Buies Creek

Address: 180 Camel Crazies Place Subdivision: BCTH

City: Lillington State: NC

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.7

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

This package includes 15 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	165332716	F3	5/3/2024
2	165332717	F4	5/3/2024
3	165332718	L02	5/3/2024
4	165332719	F2	5/3/2024
5	165332720	F1	5/3/2024
6	165332721	L01	5/3/2024
7	165332722	L03	5/3/2024
8	165332723	F5	5/3/2024
9	165332724	F6	5/3/2024
10	165332725	F7	5/3/2024
11	165332726	F8	5/3/2024
12	165332727	F10	5/3/2024
13	165332728	L04	5/3/2024
14	165332729	F9	5/3/2024
15	165332730	L05	5/3/2024

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

Truss Design Engineer's Name: Gilbert, Eric

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

North Carolina COA: C-0844

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



May 03, 2024

Job	Truss	Truss Type	Qty	Ply	BCTH-30	٦
24052573	E3	Floor Girder	1	1	l65332716	,
24032373	F3	Floor Girder	'	'	Job Reference (optional)	

The Building Center, Gastonia, NC - 28052,

8.730 s Apr 25 2024 MiTek Industries, Inc. Thu May 2 14:43:39 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-9MEqZIZqKOqU70bsmJeL8FWxvVkyRVyUgc34uBzKVwI

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

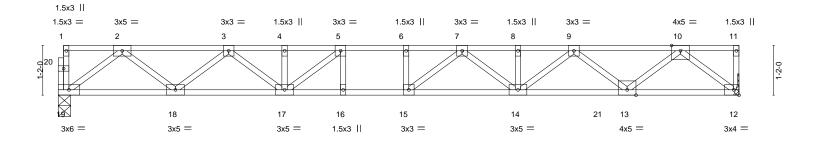
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



1-4-4

Scale = 1:27.0



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 NO Code IRC2015/TPI2014	CSI. TC 0.71 BC 0.88 WB 0.56 Matrix-S	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 Weight: 82 lb FT = 20%F, 11%E

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

2x4 SP No.3(flat)

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



May 3,2024



Job	Truss	Truss Type	Qty	Ply	BCTH-30
24052573	FA	Floor	3	1	l65332717
24032373	1 4	1 1001	3	'	Job Reference (optional)

Gastonia, NC - 28052, The Building Center,

8.730 s Apr 25 2024 MiTek Industries, Inc. Thu May 2 14:43:39 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-9MEqZIZqKOqU70bsmJeL8FWz8VlyRYeUgc34uBzKVwI

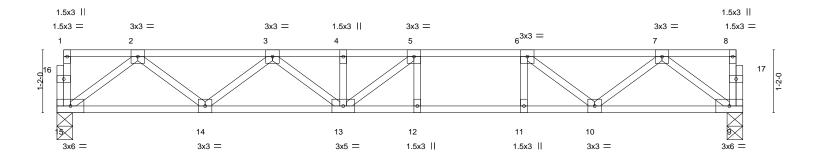
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

0₁1₁8 Scale = 1:21.4





						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

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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.

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

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.



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

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



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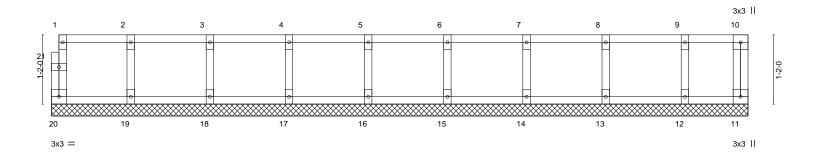
Job	Truss	Truss Type	Qty	Ply	BCTH-30	٦
24052573	L02	GABLE	1	1	l65332718	i
24032373	LUZ	OADLE	'		Job Reference (optional)	

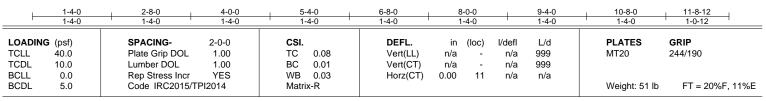
Gastonia, NC - 28052,

8.730 s Apr 25 2024 MiTek Industries, Inc. Thu May 2 14:43:42 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7Hxl-axvzCKbjdJC3_TJRRSB2mt8byjyBe_vwNZIIVWzKVwF

0118

Scale = 1:19.4





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 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 Tru	uss	Truss Type	Qty	Ply	BCTH-30
24052573 F2	!	Floor	5	1	lob Reference (ontional)

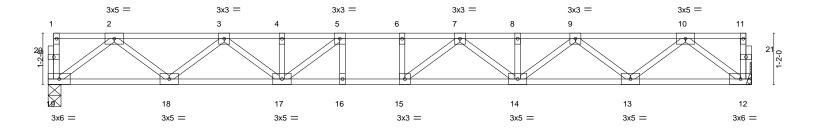
Gastonia, NC - 28052,

8.730 s Apr 25 2024 MiTek Industries, Inc. Thu May 2 14:43:38 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-hAgSMyYCZ4idWs0fCc76c1zqH5MBi4YLSyKXMlzKVwJ



1-2-12

0-1-8 Scale = 1:26.2



		<u> </u>		
LOADING (psf)	SPACING- 2-0-0 Plate Grip DOL 1.00	CSI. TC 0.51	DEFL. in (loc) I/defl L/d Vert(LL) -0.22 14-15 >862 360	PLATES GRIP MT20 244/190
TCLL 40.0 TCDL 10.0	Lumber DOL 1.00	BC 0.98	Vert(CT) -0.30 14-15 >623 240	W120 244/190
BCLL 0.0 BCDL 5.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.44 Matrix-S	Horz(CT) 0.06 12 n/a n/a	Weight: 83 lb FT = 20%F, 11%E

LUMBER-TOP CHORD

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

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

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

except end verticals.

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

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=-1344/0, 10-13=0/919, 10-13=-879/0, 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.



May 3,2024



Job	Truss	Truss Type	Qty	Ply	BCTH-30
					165332720
24052573	F1	Floor	1	1	
					Job Reference (optional)

The Building Center, Gastonia, NC - 28052,

8.730 s Apr 25 2024 MiTek Industries, Inc. Thu May 2 14:43:38 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-hAgSMyYCZ4idWs0fCc76c1zpe5Qyi4SLSyKXMlzKVwJ

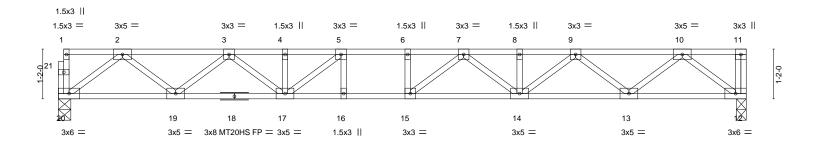
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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 BOT CHORD 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-

- 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.





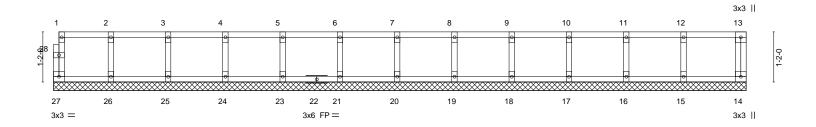
Job	Truss	Truss Type	Qty	Ply	BCTH-30	7
0.4050570	1.04	CARLE			165332721	
24052573	L01	GABLE	1	1		
					Job Reference (optional)	

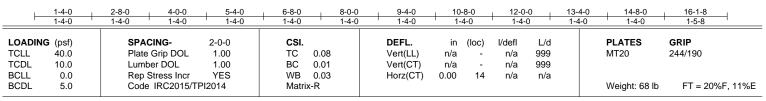
Gastonia, NC - 28052,

8.730 s Apr 25 2024 MiTek Industries, Inc. Thu May 2 14:43:41 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-6lLa_a5s?4CNKkEtkgpEgbQDJcxvXfn8vYBz4zKVwG

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-30	7
					165332722	۷ ا
24052573	L03	GABLE	1	1		
					Job Reference (optional)	

Gastonia, NC - 28052, The Building Center,

8.730 s Apr 25 2024 MiTek Industries, Inc. Thu May 2 14:43:42 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7Hxl-axvzCKbjdJC3_TJRRSB2mt8bxjy2e_vwNZIIVWzKVwF

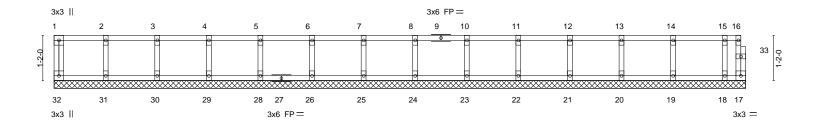
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

0-11-8

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

TOP CHORD

LUMBER-BRACING-

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

BOT CHORD 2x4 SP No.3(flat)

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-

OTHERS

- 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-30 165332723 Floor 24052573 F5 Job Reference (optional) 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu May 2 14:43:39 2024 Page 1

The Building Center,

1-3-0

Gastonia, NC - 28052,

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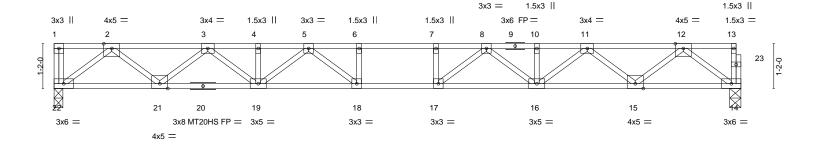
Structural wood sheathing directly applied or 5-6-6 oc purlins,

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

except end verticals.

1-10-8

Scale = 1:30.0



<u> </u>			17-10-8								
<u> </u>	17-10-8										
LOADING (psf) TCLL 40.0	SPACING- 2-0-0 Plate Grip DOL 1.00	CSI. TC 0.68	DEFL. in (loc) I/defl L/d Vert(LL) -0.30 17-18 >696 360	PLATES GRIP 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 BCDL 5.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.52 Matrix-S	Horz(CT) 0.07 14 n/a n/a	Weight: 91 lb FT = 20%F, 11%E							

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

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

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

BOT CHORD $21-22=0/1211,\ 19-21=0/2838,\ 18-19=0/3809,\ 17-18=0/4057,\ 16-17=0/3809,\ 15-16=0/2838,\ 18-19=0/3809,\ 17-18=0/4057,\ 18-19=0/3809,\ 18-19=0/2838,\ 18-19=0/3809,\ 18-1$

14-15=0/1210

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

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-

- 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.



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

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



Job	Truss	Truss Type	Qty	Ply	BCTH-30	
	F0				16533272	24
24052573	F6	Floor	6	1	Job Reference (optional)	

Gastonia, NC - 28052,

8.730 s Apr 25 2024 MiTek Industries, Inc. Thu May 2 14:43:40 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-dZnCneZT5iyLlA92J19ahS38xv5MAzxevFpeRdzKVwH

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

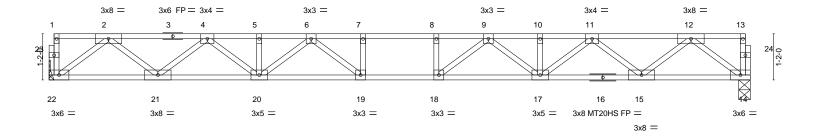
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

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

1-8-12

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 TCDL 10.0	Plate Grip DOL 1.00 Lumber DOL 1.00	TC 0.62 BC 0.80	Vert(LL) -0.29 18-19 >713 360 Vert(CT) -0.40 18-19 >519 240	MT20 244/190 MT20HS 187/143						
BCLL 0.0 BCDL 5.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.51 Matrix-S	Horz(CT) 0.07 14 n/a n/a	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

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

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-

- 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.





Job	Truss	Truss Type	Qty	Ply	BCTH-30
24052573	E7	Floor	1	1	165332725
24032373		1 1001	'	'	Job Reference (optional)

Gastonia, NC - 28052,

8.730 s Apr 25 2024 MiTek Industries, Inc. Thu May 2 14:43:40 2024 Page 1 ID:sWUVkoBcB7eFy0GbrlE06iy7HxI-dZnCneZT5iyLIA92J19ahS39vv4HAyievFpeRdzKVwH

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

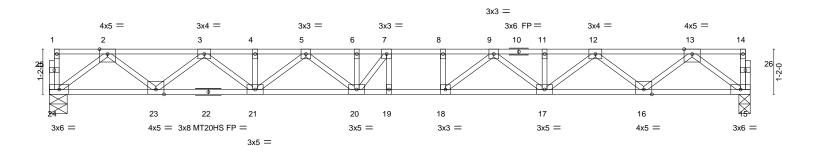
Rigid ceiling directly applied or 10-0-0 oc bracing.

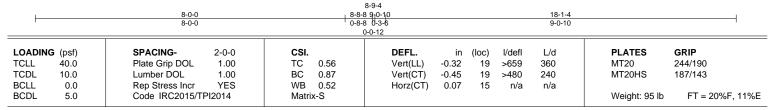
except end verticals.

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

0-8-8 1-3-4

0-1-8 Scale = 1:29.8





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)

(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. 2-3=-2073/0, 3-4=-3461/0, 4-5=-3461/0, 5-6=-4136/0, 6-7=-4136/0, 7-8=-4164/0, TOP CHORD

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,

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-

REACTIONS.

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 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-30 165332726 24052573 F8 Floor Girder Job Reference (optional) 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu May 2 14:43:41 2024 Page 1

The Building Center,

1-3-0

Gastonia, NC - 28052,

ID:sWUVkoBcB7eFy0GbrIE06iy7Hxl-6lLa_a5s?4CNKkEtkgpEgblvJQGvSJn8vYBz4zKVwG

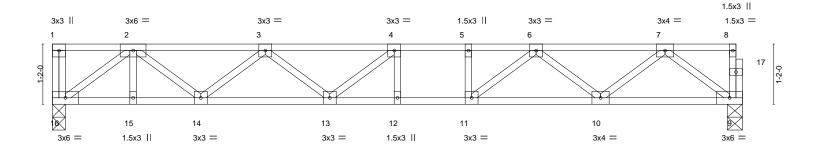
1-3-0 0118

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 = 1:22.3



13-4-8 13-4-8											
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.61	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/TF	PI2014	Matri	x-S					Weight: 70 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

REACTIONS. 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-

- 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)



May 3,2024

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

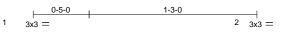
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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-30 165332727 24052573 F10 Floor Girder

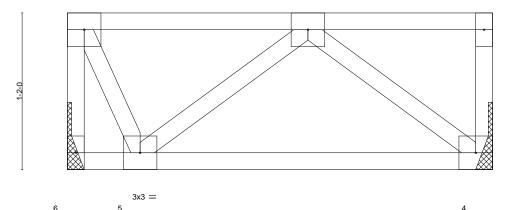
The Building Center, Gastonia, NC - 28052,

Job Reference (optional) 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu May 2 14:43:38 2024 Page 1 ID:sWUVkoBcB7eFy0GbrlE06iy7HxI-hAgSMyYCZ4idWs0fCc76c1zvM5YLi8gLSyKXMlzKVwJ



3 1.5x3 II

Scale = 1:8.6



1.5x3 ||

3x3 =

	l		3-2-0					
			3-2-0					
3-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(lc
TCLL	40.0	Plate Grip DOL	1.00	TC	0.18	Vert(LL)	-0.00	
TCDL	10.0	Lumber DOL	1.00	BC	0.20	Vert(CT)	-0.01	4
BCLL	0.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.00	
BCDL	5.0	Code IRC2015/Ti	PI2014	Matrix	(-P			

GRIP

244/190

FT = 20%F, 11%E

PLATES

Weight: 18 lb

MT20

1-2-0

LUMBER-

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

2x4 SP No.3(flat)

TOP CHORD

BRACING-

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

except end verticals.

>999

n/a

5 >999

4-5

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

360

240

n/a

REACTIONS. 6=Mechanical, 4=Mechanical (size)

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

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

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-

- 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)



May 3,2024



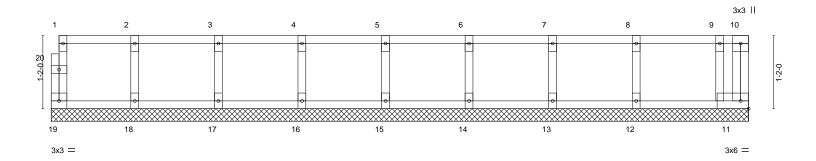
Job	Truss	Truss Type	Qty	Ply	BCTH-30	7
					165332728	3
24052573	L04	GABLE	1	1		
					Job Reference (optional)	

Gastonia, NC - 28052,

8.730 s Apr 25 2024 MiTek Industries, Inc. Thu May 2 14:43:42 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7Hxl-axvzCKbjdJC3_TJRRSB2mt8bqjyve_uwNZIIVWzKVwF

0₁1₇8

Scale = 1:18.4



1-4-0	2-8-0	4-0-0	5-4-0 6-8-0	8-0-0	9-4-0	10-8-0	11-1-8
1-4-0	1-4-0	1-4-0	1-4-0 1-4-0	1-4-0	1-4-0	1-4-0	
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		GRIP 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.



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

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818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply BCTH-30 165332729 24052573 F9 Floor

The Building Center, Gastonia, NC - 28052,

Job Reference (optional) 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu May 2 14:43:41 2024 Page 1 ID:sWUVkoBcB7eFy0GbrlE06iy7HxI-6lLa_a5s?4CNKkEtkgpEgbN7JVLvTrn8vYBz4zKVwG

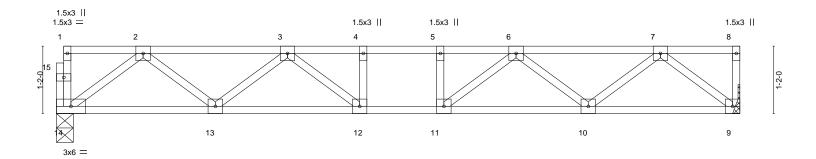
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.



Scale = 1:19.9



<u> </u>						11-10-0						
	11-10-0											
LOADING (p	osf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
	0.0	Plate Grip DOL	1.00	TC	0.28	Vert(LL)	-0.07	12	>999	360	MT20	244/190
TCDL 1	0.0	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/TP	12014	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.





ob	Truss	Truss Type	Qty	Ply	BCTH-30		165332730
4052573	L05	GABLE	1	1	Ish Defenses (antisms)		103332130
The Building Center, G	astonia, NC - 28052,	<u> </u>	ID:sWUVkoBr	8.730 s Api	Job Reference (optional) r 25 2024 MiTek Industries E06iy7HxI-28TLPgcLOdk	s, Inc. Thu May 21	4:43:43 2024 Page 1
			12.0170111021	2.0.,000			0-1-8
1 3x3		2	3		4	5	Scale = 1:8.9
		•	•			0	-
							11
1-2-0							0-1-2-0
+							+
		0	•			•	
10	*******	9	8	*****	7	6	× × × × × × ×
3x3							3x3 =
 	1-4-0 1-4-0	2-8-0 1-4-0	-		4-0-0 1-4-0	4-8-12 0-8-12	
LOADING (psf) TCLL 40.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	TC 0.08 BC 0.02	Vert(LL) n	in (loc) //a - //a -	l/defl L/d n/a 999 n/a 999	PLATES MT20	GRIP 244/190

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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)

REACTIONS. All bearings 4-8-12.

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

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).
- 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.

Matrix-R

6) CAUTION, Do not erect truss backwards.



Weight: 23 lb

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

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

except end verticals.

FT = 20%F, 11%E

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)



Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

* Plate location details available in MiTek software or upon request

PLATE SIZE

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

LATERAL BRACING LOCATION



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

BEARING



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

ANSI/TPI1: Industry Standards: National Design Specification for Metal

DSB-22:

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

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- 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.

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- 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

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

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Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

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

or other loads other than those expressly stated.