

RE: 24052561 BCTH-27

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: TRUE HOMES RALEIGH Project Name: 24052561 Lot/Block: 27 Model: Lucas TH @ Model: Lucas TH @ Buies Creek

Address: 192 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. S	Seal#	Truss Name	Date
1 16	55332716	F3	5/3/2024
2 16	55332717	F4	5/3/2024
3 16	55332718	L02	5/3/2024
4 16	55332719	F2	5/3/2024
5 16	55332720	F1	5/3/2024
6 16	55332721	L01	5/3/2024
7 16	55332722	L03	5/3/2024
8 16	55332723	F5	5/3/2024
9 16	55332724	F6	5/3/2024
10 le	55332725	F7	5/3/2024
11 16	55332726	F8	5/3/2024
12 16	65332727	F10	5/3/2024
13 16	65332728	L04	5/3/2024
14 16	65332729	F9	5/3/2024
15 l6	55332730	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-27	٦
24052561	F2	Floor Girder	_	_	165332716	j
24052561	r3	Floor Girder	1	'	Job Reference (optional)	

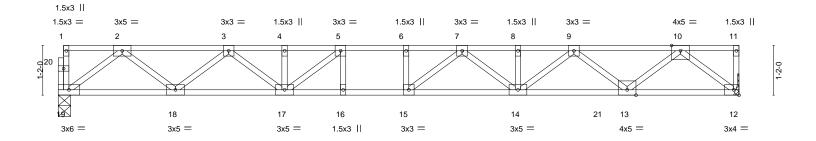
The Building Center, Gastonia, NC - 28052,

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



1-4-4

Scale = 1:27.0



-	15-11-12 15-11-12						
			10 11 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 0.71	Vert(LL) -0.23 14-15 >818 360	MT20 244/190			
TCDL 10.0	Lumber DOL 1.00	BC 0.88	Vert(CT) -0.32 14-15 >591 240				
BCLL 0.0	Rep Stress Incr NO	WB 0.56	Horz(CT) 0.06 12 n/a n/a				
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 82 lb FT = 20%F, 11%E			

LUMBER-BRACING-

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

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. 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-

- 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-27
24052561	 E4	Floor	3	1	165332717
24032301	1 4	1 1001	3	'	Job Reference (optional)

Gastonia, NC - 28052, The Building Center,

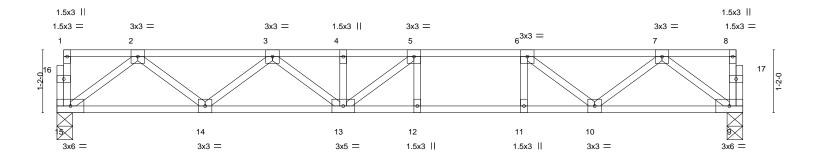
8.730 s Apr 25 2024 MiTek Industries, Inc. Thu May 2 14:43:39 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-9MEqZIZqKOqU70bsmJeL8FWz8VlyRYeUgc34uBzKVwI

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

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

except end verticals.





	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/TPI2014	Matrix-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)

(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-

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.



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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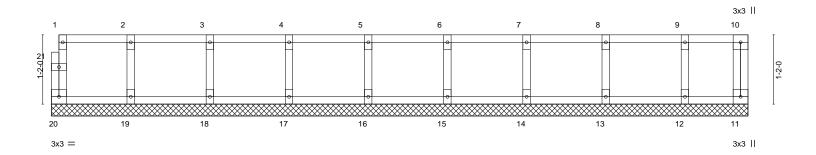
Job	Truss	Truss Type	Qty	Ply	BCTH-27	٦
04050504	1.00	CARLE			165332718	;
24052561	L02	GABLE	1	1	Joh Rofaranco (antional)	
		I	1	1	Job Reference (optional)	

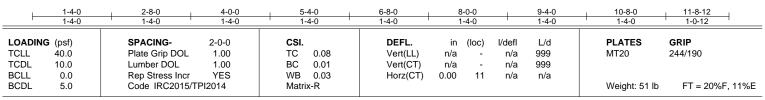
Gastonia, NC - 28052,

8.730 s Apr 25 2024 MiTek Industries, Inc. Thu May 2 14:43:42 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7Hxl-axvzCKbjdJC3_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	Truss	Truss Type	Qty	Ply	BCTH-27
24052561	F2	Floor	5	1	l65332719

Gastonia, NC - 28052,

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

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

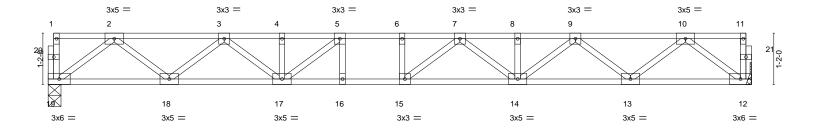
Rigid ceiling directly applied or 2-2-0 oc bracing.

except end verticals.





0-1-8 Scale = 1:26.2



	15-11-12 15-11-12							
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 0.51	Vert(LL) -0.22 14-15 >862 360	MT20 244/190				
TCDL 10.0	Lumber DOL 1.00	BC 0.98	Vert(CT) -0.30 14-15 >623 240					
BCLL 0.0	Rep Stress Incr YES	WB 0.44	Horz(CT) 0.06 12 n/a n/a					
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=-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-27
24052561	F1	Floor	1	1	165332720
24002001		1 1001	'		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

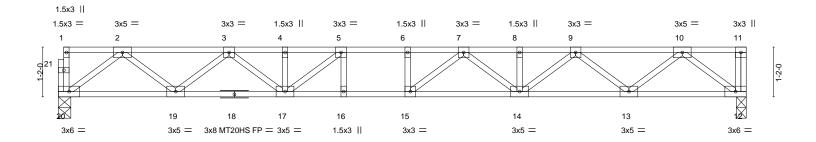
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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	l	16-1-8 10-9-0	
TCLL 40.0 Pla TCDL 10.0 Lu BCLL 0.0 Re	PACING- 2-0-0 atte Grip DOL 1.00 mber DOL 1.00 sp Stress Incr YES ode 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.



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)



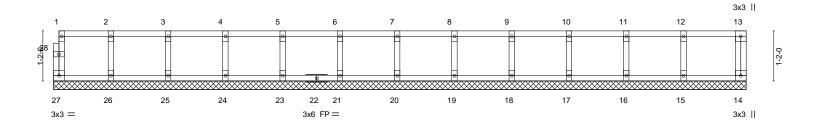
Job	Truss	Truss Type	Qty	Ply	BCTH-27	7
04050504	1.04	CARLE			165332721	
24052561	L01	GABLE	1	1	11.57	
		I	1	1	Job Reference (optional)	

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



1-4-0	2-8-0 4-0-0 5-4-0 1-4-0 1-4-0 1-4-0	6-8-0 8-0-0 1-4-0 1-4-0		10-8-0 1-4-0	12-0-0 1-4-0	13-4-0 1-4-0 1-4-0	16-1-8 1-5-8
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.08 BC 0.01 WB 0.03 Matrix-R	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.00 14	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES MT20 Weight: 68 lb	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) 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.





818 Soundside Road Edenton, NC 27932

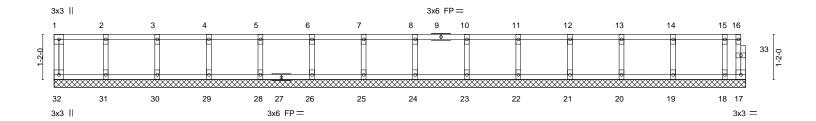
Job	Truss	Truss Type	Qty	Ply	BCTH-27	٦
					165332722	
24052561	L03	GABLE	1	1		
					Llob Reference (optional)	

Gastonia, NC - 28052,

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

0-11-8

Scale = 1:29.8



1-4-0	2-8-0 4-0-0 5-4-0	6-8-0 8-0-0	9-4-0 10-8-0 12-0-0 13-4	
1-4-0	1-4-0 1-4-0 1-4-0	1-4-0 1-4-0	1-4-0 1-4-0 1-4-0 1-4-	
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 Vert(LL) n/a - n/a Vert(CT) n/a - n/a Horz(CT) 0.00 17 n/a	L/d PLATES GRIP 999 MT20 244/190 999 n/a 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)

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 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-27 165332723 Floor 24052561 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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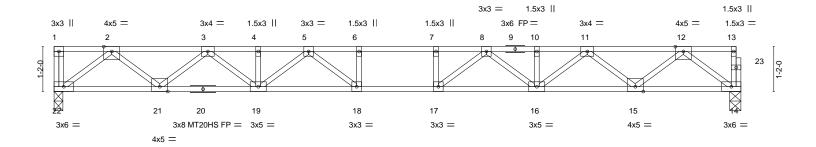
Structural wood sheathing directly applied or 5-6-6 oc purlins,

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

except end verticals.

1-10-8

Scale = 1:30.0



-	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.

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

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.





Job	Truss	Truss Type	Qty	Ply	BCTH-27
04050504	F0				165332724
24052561	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,

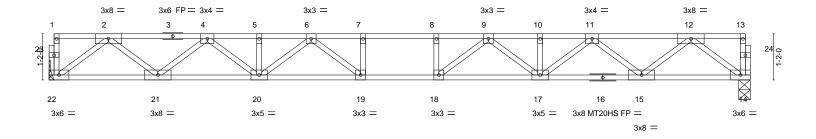
Rigid ceiling directly applied or 10-0-0 oc bracing.

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.



May 3,2024



Job		Truss	Truss Type	Qty	Ply	BCTH-27	٦
						165332725	5
24052	561	F/	Floor	1	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:sWUVkoBcB7eFy0GbrlE06iy7HxI-dZnCneZT5iyLIA92J19ahS39vv4HAyievFpeRdzKVwH

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

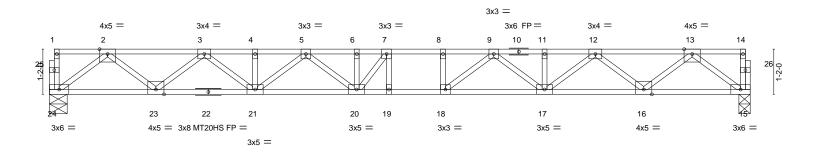
Rigid ceiling directly applied or 10-0-0 oc bracing.

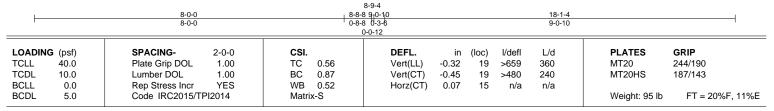
except end verticals.

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)

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.

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

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

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

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-27 165332726 24052561 F8 Floor Girder Job Reference (optional) 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu May 2 14:43:41 2024 Page 1 Gastonia, NC - 28052,

The Building Center,

1-3-0

ID:sWUVkoBcB7eFy0GbrIE06iy7Hxl-6lLa_a5s?4CNKkEtkgpEgblvJQGvSJn8vYBz4zKVwG

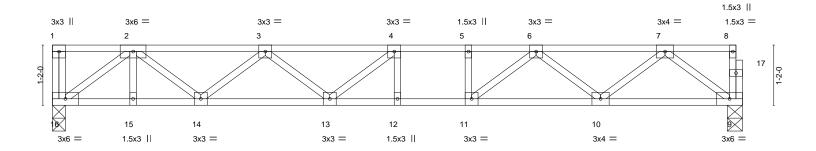
1-3-0 0118

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 (psf) TCLL 40.0	SPACING- 2-0-0 Plate Grip DOL 1.00	CSI. TC 0.61	DEFL. in (loc) I/defl L/d Vert(LL) -0.13 12-13 >999 360	PLATES GRIP MT20 244/190				
TCDL 10.0 BCLL 0.0 BCDL 5.0	Lumber DOL 1.00 Rep Stress Incr NO Code IRC2015/TPI2014	BC 0.83 WB 0.37 Matrix-S	Vert(CT) -0.18 12-13 >864 240 Horz(CT) 0.03 9 n/a n/a	Weight: 70 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

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)

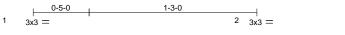


Job Truss Truss Type Qty Ply BCTH-27 165332727 F10 24052561 Floor Girder

The Building Center, Gastonia, NC - 28052,

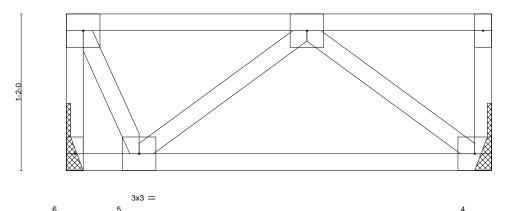
Job Reference (optional) 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu May 2 14:43:38 2024 Page 1 ID:sWUVkoBcB7eFy0GbrlE06iy7HxI-hAgSMyYCZ4idWs0fCc76c1zvM5YLi8gLSyKXMlzKVwJ

3 1.5x3 II



Scale = 1:8.6

1-2-0



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

	'				3-2-0					
(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	
40.ó	Plate Grip DOL	1.00	TC	0.18	Vert(LL)	-0.00	` ź	>999	360	
10.0	Lumber DOL	1.00	BC	0.20	Vert(CT)	-0.01	4-5	>999	240	
0.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.00	4	n/a	n/a	
5.0	Code IRC2015/T	PI2014	Matrix	x-P	'					

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

GRIP 244/190

PLATES

MT20

LUMBER-

LOADING

TCLL

TCDL BCLL BCDL

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

BRACING-TOP CHORD

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

except end verticals.

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

REACTIONS. 6=Mechanical, 4=Mechanical

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

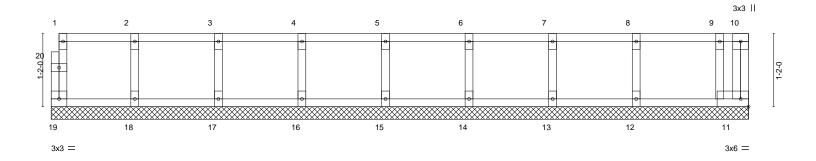
Job	Truss	Truss Type	Qty	Ply	BCTH-27
24052561	L04	GABLE	1	1	165332728
24032301	L04	GABLE	'	'	Job Reference (optional)

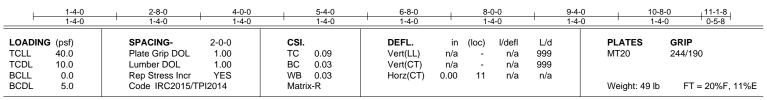
The Building Center, Gastonia, NC - 28052,

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





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 11-1-8.

(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.



May 3,2024



Job Truss Truss Type Qty Ply BCTH-27 165332729 24052561 F9 Floor

The Building Center, Gastonia, NC - 28052,

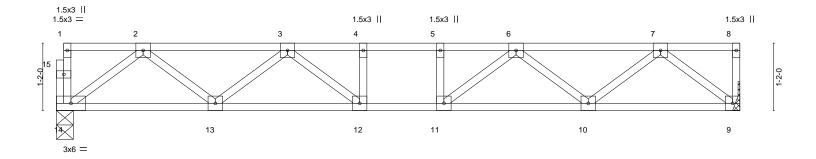
Job Reference (optional) 8.730 s Apr 25 2024 MiTek Industries, Inc. Thu May 2 14:43:41 2024 Page 1 ID:sWUVkoBcB7eFy0GbrlE06iy7HxI-6lLa_a5s?4CNKkEtkgpEgbN7JVLvTrn8vYBz4zKVwG

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

except end verticals.



Scale = 1:19.9



_				11-10-0						
	11-10-0									
-										
LOADIN	IG (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP						
TCLL	40.Ó	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/TPI2014	Matrix-S	Weight: 60 lb FT = 20%F	-, 11%E					

LUMBER-BRACING-TOP CHORD

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

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

REACTIONS. 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-

- 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-27		165332730
4052561	L05	GABLE	1	1	Job Reference (optional	ıl)	103332730
The Building Center, G	Sastonia, NC - 28052,		ID:sWUVkol	8.730 s Apr BcB7eFy0Gbrl	25 2024 MiTek Industri E06iy7HxI-28TLPgcLOc	es, Inc. Thu May 21	4:43:43 2024 Page 1
							0-1-8
1 3x3		2	3		4	5	Scale = 1:8.9
							11
1-2-0							1-2-0
		•	•			•	
10		9	8		7	6	
3x3							3x3 =
<u> </u>	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 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	TC 0.08 BC 0.02	Vert(CT)	in (loc) n/a - n/a -).00 6	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES MT20	GRIP 244/190

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)

5.0

BRACING-

Matrix-R

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

Weight: 23 lb

FT = 20%F, 11%E

except end verticals.

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

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.
- 6) CAUTION, Do not erect truss backwards.



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818 Soundside Road Edenton, NC 27932

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

₹

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.