

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 23126112 BCTH-62

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: I62686294 thru I62686308

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

North Carolina COA: C-0844



December 21,2023

Gilbert, Eric

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

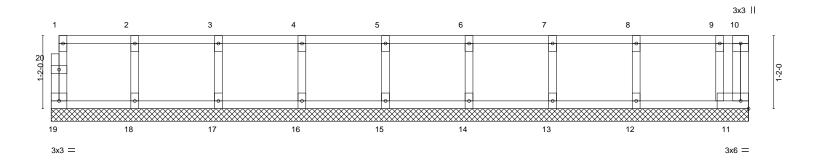
| Job | Truss | Truss Type | Qty | Ply | BCTH-62 | ٦ |
|----------|-------|------------|-----|-----|--------------------------|---|
| | | | | | 162686294 | - |
| 23126112 | KW05 | GABLE | 1 | 1 | | |
| | | | | | Job Reference (optional) | |

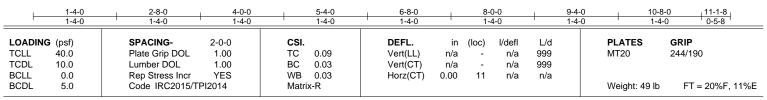
Gastonia, NC - 28052,

8.730 s Dec 14 2023 MiTek Industries, Inc. Wed Dec 20 19:19:05 2023 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-nptLjafG5bvKM1LpOPYAs3IhKAzqRdr?GZv860y6zzq

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.



December 21,2023



Job Truss Truss Type Qty BCTH-62 162686295 23126112 KW04 **GABLE** Job Reference (optional)
8.730 s Dec 14 2023 MiTek Industries, Inc. Wed Dec 20 19:19:04 2023 Page 1 The Building Center, Gastonia, NC - 28052, ID:sWUVkoBcB7eFy0GbrIE06iy7Hxl-JdJzWEfdKHnUktmdqh1xJsmWgmdliAds2vAaaZy6zzr 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 Vert(LL) n/a 999 244/190 0.08 n/a MT20 **TCDL** 10.0 Lumber DOL 1.00 ВС 0.02 Vert(CT) n/a n/a 999 0.00 **BCLL** 0.0 Rep Stress Incr YES WB 0.03 Horz(CT) 6 n/a n/a Code IRC2015/TPI2014 **BCDL** 5.0 Matrix-R Weight: 23 lb FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SP No.2(flat) TOP CHORD

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

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.



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

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

except end verticals.

December 21,2023



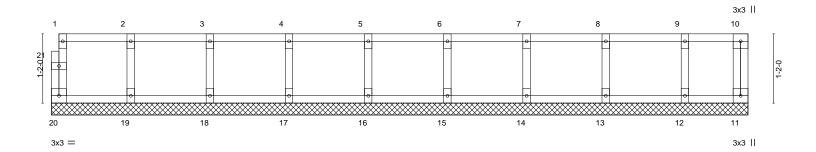
| Job | Truss | Truss Type | Qty | Ply | BCTH-62 | 1 |
|----------|-------|------------|-----|-----|--------------------------|----|
| 23126112 | KW03 | GABLE | | | 162686296 | |
| 23126112 | KVV03 | GABLE | 1 | 1 | | |
| | | | | 1 | Job Reference (optional) | -1 |

Gastonia, NC - 28052, The Building Center,

8.730 s Dec 14 2023 MiTek Industries, Inc. Wed Dec 20 19:19:03 2023 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-rRlblue?Zzfd6jBRG_WineDLyMHezjNipFQ127y6zzs

0118

Scale = 1:19.4



| 1-4-0 | 2-8-0 4-0-0 | 5-4-0 | 6-8-0 | 8-0-0 | 9-4-0 | 10-8-0 | 11-8-12 |
|---|---|---|---|---------------------------------------|---|---------------------------------|--|
| 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 | 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 11 | l/defl L/d n/a 999 n/a 999 n/a n/a | PLATES MT20 Weight: 51 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)

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 11-8-12.

(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.



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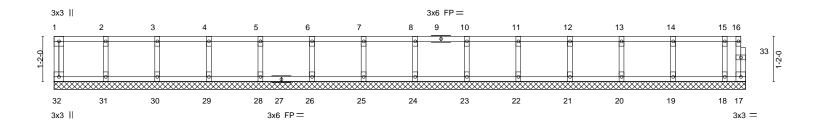
| Job | Truss | Truss Type | Qty | Ply | BCTH-62 |
|----------|---------|------------|-----|-----|--------------------------|
| 00400440 | ICIAIOO | CARLE | | | 162686297 |
| 23126112 | KW02 | GABLE | 1 | 1 | Job Reference (optional) |

Gastonia, NC - 28052,

8.730 s Dec 14 2023 MiTek Industries, Inc. Wed Dec 20 19:19:02 2023 Page 1 ID:sWUVkoBcB7eFy0GbrlE06iy7Hxl-NEBD5YdNogXmVZcFjG?TERgAByyGEG7ZabhUVhy6zzt

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 **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 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.





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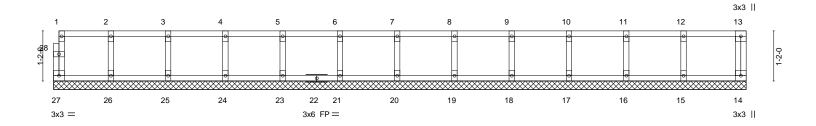
| Job | Truss | Truss Type | Qty | Ply | BCTH-62 | ٦ |
|----------|-------|------------|-----|-----|--------------------------|---|
| | | | | | 162686298 | |
| 23126112 | KW01 | GABLE | 1 | 1 | | |
| | | | | | Job Reference (optional) | |

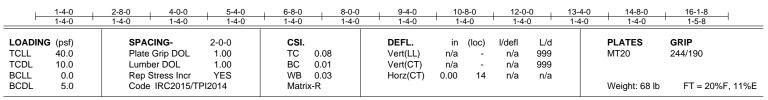
Gastonia, NC - 28052, The Building Center,

8.730 s Dec 14 2023 MiTek Industries, Inc. Wed Dec 20 19:19:01 2023 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-v2eqtCcl1MPvtP129ZUEhD8?UZc9VptQMxxwzEy6zzu

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.

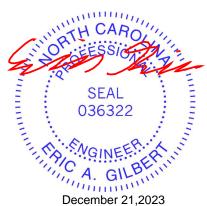
REACTIONS. All bearings 16-1-8.

(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.





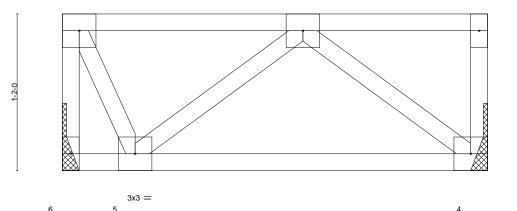
Job Truss Truss Type Qty Ply BCTH-62 162686299 F10 23126112 Floor Girder Job Reference (optional)
8.730 s Dec 14 2023 MiTek Industries, Inc. Wed Dec 20 19:18:51 2023 Page 1

The Building Center, Gastonia, NC - 28052,

ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-B712noVUOH8KgtG7ZSIuI6jHNX8w9GAx2NWOdpy7__2



3 1.5x3 II Scale = 1:8.6



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

| | | ı | | | 3-2-0 | | | | | | |
|--------|---------|-----------------|--------|-------|-------|----------|-------|-------|--------|-----|--|
| LOADIN | G (psf) | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | |
| TCLL | 40.0 | Plate Grip DOL | 1.00 | TC | 0.18 | Vert(LL) | -0.00 | 5 | >999 | 360 | |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.20 | Vert(CT) | -0.01 | 4-5 | >999 | 240 | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.17 | Horz(CT) | 0.00 | 4 | n/a | n/a | |
| BCDI | 5.0 | Code IRC2015/TI | DI201/ | Matri | v_D | , , | | | | | |

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

GRIP 244/190

PLATES

MT20

LUMBER-

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



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| Job | Truss | Truss Type | Qty | Ply | BCTH-62 |
|----------|-------|------------|-----|-----|--------------------------|
| 22426442 | Γ0 | Floor | 4 | _ | 162686300 |
| 23126112 | F9 | Floor | 1 | 1 | Job Reference (optional) |

0-1-8

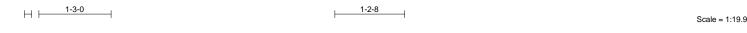
Gastonia, NC - 28052,

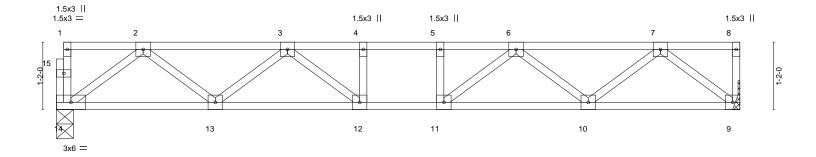
8.730 s Dec 14 2023 MiTek Industries, Inc. Wed Dec 20 19:19:00 2023 Page 1 ID:sWUVkoBcB7eFy0GbrlE06iy7Hxl-Rs4Sgsc7G2H2FFSsbry?90boe99KmlpG7HCNRoy6zzv

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

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

except end verticals.





| _ ⊢ | | | | 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 |

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)

REACTIONS. 14=0-3-8, 9=Mechanical

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.

Max Grav 14=634(LC 1), 9=641(LC 1)

- 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.



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 BCTH-62 162686301 23126112 F8 Floor Girder Job Reference (optional)
8.730 s Dec 14 2023 MiTek Industries, Inc. Wed Dec 20 19:18:59 2023 Page 1

The Building Center,

1-3-0

Gastonia, NC - 28052,

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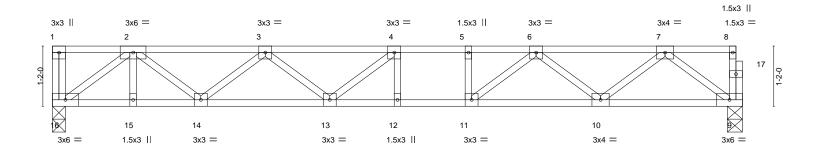
1-3-0 0118

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 | Lumber DOL 1.00 Rep Stress Incr NO | BC 0.83 WB 0.37 | Vert(CT) -0.18 12-13 >864 240 Horz(CT) 0.03 9 n/a n/a | 2.11.00 | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | Matrix-S | | Weight: 70 lb FT = 20%F, 11%E | | |

BOT CHORD

LUMBER-BRACING-TOP CHORD

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)



December 21,2023



| Job | Truss | Truss Type | Qty | Ply | BCTH-62 | ٦ |
|----------|-------|------------|-----|-----|--------------------------|---|
| 00400440 | | | | | 162686302 | - |
| 23126112 | F/ | Floor | 2 | 1 | Job Reference (optional) | |

Gastonia, NC - 28052,

8.730 s Dec 14 2023 MiTek Industries, Inc. Wed Dec 20 19:18:58 2023 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7Hxl-UTyiFBatkR1K0yITURwX4bWOgLN1IKQzfzjGMwy6zzx

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

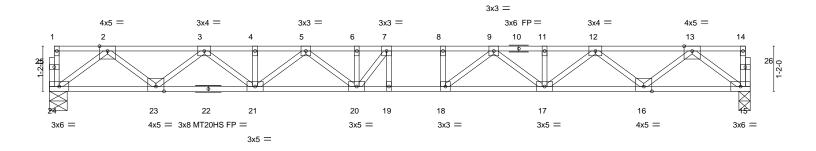
Rigid ceiling directly applied or 10-0-0 oc bracing.

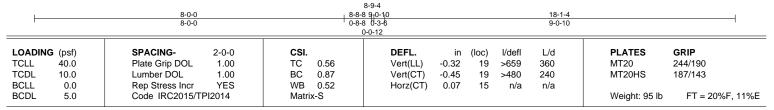
except end verticals.

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

0-8-8 1-3-4

0-1-8 Scale = 1:29.8





BOT CHORD

LUMBER-BRACING-TOP CHORD

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

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

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.

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,

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.



December 21,2023



Job Truss Truss Type Qty Ply BCTH-62 162686303 Floor 23126112 F6 5

The Building Center,

1-3-0

Gastonia, NC - 28052,

Job Reference (optional)
8.730 s Dec 14 2023 MiTek Industries, Inc. Wed Dec 20 19:18:57 2023 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-0HOK2rZEz7vTOokHwjPIXNzB9x1RZtJqRJzjqTy6zzy

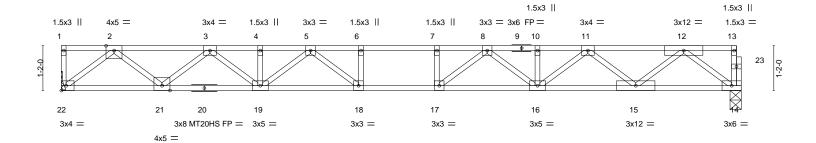
Structural wood sheathing directly applied or 5-7-3 oc purlins,

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

except end verticals.

1-10-4 0-11-8

Scale = 1:30.0



| 17-8-12 17-8-12 | | | | | | |
|-----------------------------------|--|--------------------------------|---|--|--|--|
| 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 >705 360 | PLATES GRIP MT20 244/190 | | |
| TCDL 10.0 BCLL 0.0 BCDL 5.0 | Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014 | BC 0.83 WB 0.52 Matrix-S | Vert(CT) -0.41 17-18 >513 240 Horz(CT) 0.07 14 n/a n/a | MT20HS 187/143 Weight: 89 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=Mechanical, 14=0-3-8 Max Grav 22=965(LC 1), 14=959(LC 1)

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

TOP CHORD 2-3=-1990/0, 3-4=-3353/0, 4-5=-3353/0, 5-6=-4019/0, 6-7=-4019/0, 7-8=-4019/0,

8-10=-3377/0, 10-11=-3377/0, 11-12=-2030/0

BOT CHORD $21-22=0/1156,\ 19-21=0/2789,\ 18-19=0/3766,\ 17-18=0/4019,\ 16-17=0/3781,\ 15-16=0/2822,$

14-15=0/1204

2-22=-1476/0, 2-21=0/1085, 3-21=-1040/0, 3-19=0/721, 5-19=-526/0, 5-18=-66/639, WFBS

 $6-18 = -284/0,\ 12-14 = -1508/0,\ 12-15 = 0/1074,\ 11-15 = -1031/0,\ 11-16 = 0/710,\ 8-16 = -515/0,$

8-17=-79/626, 7-17=-279/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates 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.



December 21,2023



Job Truss Truss Type Qty Ply BCTH-62 162686304 Floor 23126112 F5

The Building Center,

1-3-0

Gastonia, NC - 28052,

| Job Reference (optional) 8.730 s Dec 14 2023 MiTek Industries, Inc. Wed Dec 20 19:18:56 2023 | Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-Y5qxqVYcCqncne95M0u3_AR0MYiAqQ4gCfE9I1y6zzz

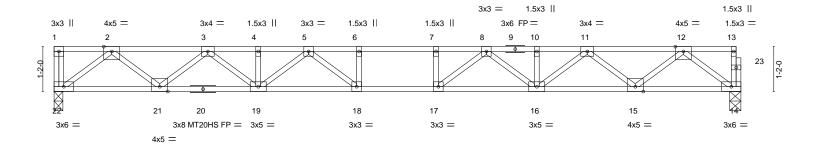
Structural wood sheathing directly applied or 5-6-6 oc purlins,

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

except end verticals.

1-10-8 0-<u>11</u>-8

Scale = 1:30.0



| 17-10-8 | | | | | | |
|------------------------|---|---------------------|--|--------------------------------|--|--|
| 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 0.68 BC 0.83 | Vert(LL) -0.30 17-18 >696 360 Vert(CT) -0.42 17-18 >506 240 | MT20 244/190 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

17-10-9

LUMBER-**BRACING-**

2x4 SP No.2(flat) TOP CHORD

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

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.



December 21,2023



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-62 |
|----------|----------------|------------|-----|-----|--------------------------|
| 23126112 | E4 | Floor | 2 | 1 | 162686305 |
| 23120112 | F 4 | Floor | 3 | ' | Job Reference (optional) |

The Building Center, Gastonia, NC - 28052,

8.730 s Dec 14 2023 MiTek Industries, Inc. Wed Dec 20 19:18:54 2023 Page 1 $ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-ciiBPpXMgCXuXK?iFbsbvlLhgk1?MZdOlLl2E8y7_?\\$

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

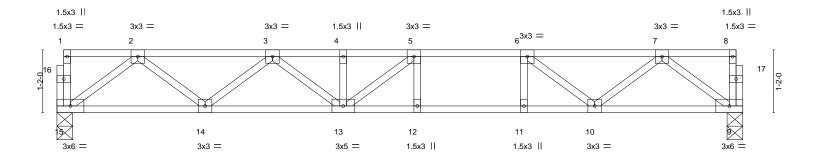
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



1-10-4

0₁1₁8 Scale = 1:21.4



| 12-8-12 12-8-12 | | | | | | |
|--------------------|----------|----------------------|----------|-------------------------------|-------------------------------|--|
| LOADIN | IG (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) I/defl L/d | PLATES GRIP | |
| TCLL | 40.0 | Plate Grip DOL 1.00 | TC 0.63 | 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.

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-

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.



December 21,2023



818 Soundside Road Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | BCTH-62 |
|----------|-------|--------------|-----|-----|--------------------------|
| 23126112 | F0 | Flace Oinday | _ | | 162686306 |
| 23126112 | F3 | Floor Girder | 1 | ' | Joh Deference (entional) |
| | | | 1 | 1 | Job Reference (optional) |

The Building Center, Gastonia, NC - 28052,

8.730 s Dec 14 2023 MiTek Industries, Inc. Wed Dec 20 19:18:53 2023 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-8W9pCTWkvvP1vBQWhtKMNXpUhKgmd3hEWh?Viiy7__0

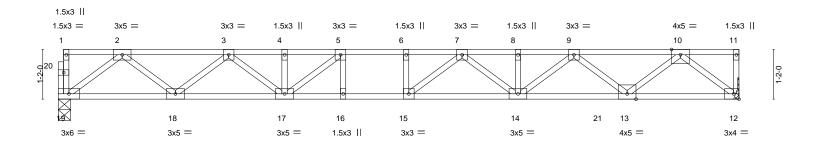


1-4-4 Scale = 1:27.0

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

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

except end verticals.



| 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 0.71 | 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 | N : 1 : 00 II | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | Matrix-S | | 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) 2x4 SP No.3(flat) WEBS

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



December 21,2023



| Job | Truss | Truss Type | Qty | Ply | BCTH-62 |
|----------|-------|------------|-----|-----|--------------------------|
| 23126112 | F2 | Floor | 4 | 1 | I62686307 |
| 25120112 | 2 | 1 1001 | 7 | | Job Reference (optional) |

Gastonia, NC - 28052,

8.730 s Dec 14 2023 MiTek Industries, Inc. Wed Dec 20 19:18:52 2023 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7Hxl-gJbR?7V68bHBI1rK7Ap7qKGMgxM?ueB5H1GyAGy7_1

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

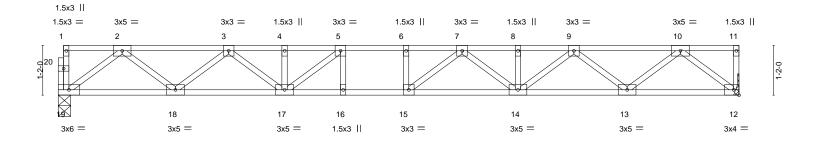
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



1-4-4

Scale = 1:27.0



| 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 0.53 | Vert(LL) -0.21 14-15 >903 360 | MT20 244/190 | |
| TCDL 10.0 | Lumber DOL 1.00 | BC 0.72 | Vert(CT) -0.29 14-15 >653 240 | | |
| BCLL 0.0 | Rep Stress Incr YES | WB 0.44 | Horz(CT) 0.05 12 n/a n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | Matrix-S | | Weight: 82 lb FT = 20%F, 11%E | |

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

REACTIONS.

2x4 SP No.2(flat) 2x4 SP No.1(flat)

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

19=0-3-8, 12=Mechanical Max Grav 19=862(LC 1), 12=869(LC 1)

TOP CHORD 2-3=-1790/0, 3-4=-2888/0, 4-5=-2888/0, 5-6=-3249/0, 6-7=-3249/0, 7-8=-2885/0, 8-9=-2885/0, 9-10=-1752/0 **BOT CHORD** 18-19=0/1078, 17-18=0/2464, 16-17=0/3249, 15-16=0/3249, 14-15=0/3176, 13-14=0/2441, 12-13=0/1035 2-19=-1350/0, 2-18=0/927, 3-18=-877/0, 3-17=0/541, 5-17=-672/0, 10-12=-1321/0, 10-13=0/934, 9-13=-896/0, WEBS

9-14=0/567, 7-14=-371/0, 7-15=-175/396

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

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.



December 21,2023



| Job | Truss | Truss Type | Qty | Ply | BCTH-62 |
|----------|-------|------------|-----|-----|--------------------------|
| 23126112 | F1 | Floor | 1 | 1 | 162686308 |
| 20120112 | | 1 1001 | | | Job Reference (optional) |

The Building Center, Gastonia, NC - 28052,

8.730 s Dec 14 2023 MiTek Industries, Inc. Wed Dec 20 19:18:50 2023 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-jxTgaSUrd_0T2jhx0InflvB0v7glQlioqknr5Ny7__3

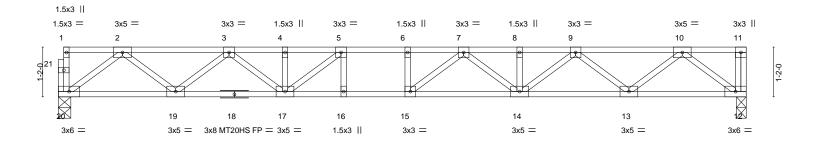
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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.



December 21,2023



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- $\frac{1}{16}$ 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: ANSI/TPI1: National Design Specification for Metal

DSB-22:

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.

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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MITOK



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.

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- 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.
- 20. 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.