

JOB NAME: Bootle Residence

CUSTOMER NAME: JBC Builders

ADDRESS:

JOB# 1678

DATE: 9/17/2024

PITCH: 7/12 OVERHANG: 1-06-00 ROOF SPACING: 24"

WALL HEIGHT: 9'

LOADING CRITERIA

BUILDING CODE: FBC 2023 WIND STANDARD: ASCE722 WIND VELOCITY: 130 mph EXPOSURE CATEGORY: B

Roof Loading
TCLL:20.0 lb/ft²
TCDL:10.0 lb/ft²
BCDL:10.0 lb/ft²
Floor Loading
TCLL:40.0 lb/ft²
TCDL:10.0 lb/ft²
BCDL:5.0 lb/ft²

WARNING

IT IS THE RESPONSIBLITY OF THE BUILDING DESIGNER OR ARCHITECT TO PROVIDE ALL CONNECTIONS OTHER THAN TRUSS TO TRUSS, UNLESS SPECIFIED OTHERWISE.

CONVENTIONAL
FRAMING, ERECTION OR
PERMANENT BRACING IS NOT
THE RESPONSIBLITY OF THE
TRUSS DESIGNER OR TRUSS
MANUFACTURER.

TRUSSES SHALL BE HANDLED WITH REASONABLE CARE DURING ERECTION TO PREVENT DAMAGE

DO NOT CUT OR ALTER TRUSSES IN ANY WAY

NOTES:

*ALL DEMENSIONS ARE FEET-INCHES- SIXTEENTHS

*NO BACKCHARGES WILL BE ACCEPTED



25221 SE HWY 19 Old Town Florida 32680 United States 19lumberinc@gmail.com (352) 469-5008

TRUSSES WILL BE BUILT IN ACCORDANCE WITH THIS LAYOUT

APPROVED BY: _ DATE: _____



RE: 1678-A - Bootle Residence

Site Information:

MiTek, Inc.

16023 Swingley Ridge Rd. Chesterfield, MO 63017 Customer Info: JBC Builders Project Name: Bootle Residence Model: . 314.434.1200

Subdivision: .

Address: 5801 SE Country Club Road, .

State: FL City: Lake City

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name: License #:

Address:

City: State:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.8

Wind Code: ASCE 7-22 Wind Speed: 130 mph Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 59 individual, Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

| No. | Seal# | Truss Name | Date | No. | Seal# | Truss Name | Date |
|---|--|---|---|--|---|---|---|
| 1 2 3 4 5 6 7 8 9 10 11 11 13 14 15 16 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19 | T35470337 T35470338 T35470340 T35470341 T35470343 T35470343 T35470345 T35470346 T35470346 T35470347 T35470349 T35470350 T35470351 T35470351 T35470352 T35470353 T35470353 T35470353 | AT1 AT2 BJ3 BJ5 BJ10 EJ2A EJ2B EJ2C EJ2D EJ6 EJ7C G1 G2 G3 G4 GR1 GR2 | 11/6/24 11/6/24 11/6/24 11/6/24 11/6/24 11/6/24 11/6/24 11/6/24 11/6/24 11/6/24 11/6/24 11/6/24 11/6/24 | 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 | T35470359 T35470360 T35470361 T35470363 T35470363 T35470365 T35470366 T35470367 T35470368 T35470370 T35470371 T35470371 T35470372 T35470373 T35470374 T35470375 T35470376 | GR7 GR8 GR9 GR10 GR11 H1 HGR2 M1 M2 PB1 PB2 PB3 PB4 S1 S2 S3 S3 S5 | 11/6/24 11/6/24 11/6/24 11/6/24 11/6/24 11/6/24 11/6/24 11/6/24 11/6/24 11/6/24 11/6/24 11/6/24 11/6/24 11/6/24 11/6/24 |
| | | | | 41 42 43 | | | |
| | | | , ., | | | | |

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by 19 Lumber, Inc..

Truss Design Engineer's Name: Lee, Julius

My license renewal date for the state of Florida is February 28, 2025.

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.



MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 6,2024

Lee, Julius



RE: 1678-A - Bootle Residence

MiTek, Inc. 16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200

Site Information:

Customer Info: JBC Builders Project Name: Bootle Residence Model: .

Subdivision: .

Lot/Block: . Address: 5801 SE Country Club Road, .

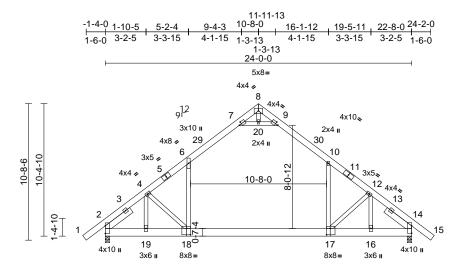
City: Lake City State: FL

| No. | Seal# | Truss Name | Date |
|-----|-----------|------------|---------|
| 45 | T35470381 | T1 | 11/6/24 |
| 46 | T35470382 | T2 | 11/6/24 |
| 47 | T35470383 | T3 | 11/6/24 |
| 48 | T35470384 | T4 | 11/6/24 |
| 49 | T35470385 | <u>T</u> 5 | 11/6/24 |
| 50 | T35470386 | <u>T6</u> | 11/6/24 |
| 51 | T35470387 | <u>T8</u> | 11/6/24 |
| 52 | T35470388 | <u>T</u> 9 | 11/6/24 |
| 53 | T35470389 | T10 | 11/6/24 |
| 54 | T35470390 | T11 | 11/6/24 |
| 55 | T35470391 | T13 | 11/6/24 |
| 56 | T35470392 | V1 | 11/6/24 |
| 57 | T35470393 | V2 | 11/6/24 |
| 58 | T35470394 | V3 | 11/6/24 |
| 59 | T35470395 | V4 | 11/6/24 |

| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 1678-A | AT1 | Attic | 6 | 1 | Job Reference (optional) | T35470337 |

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Page: 1



1-10-5 5-0-8 16-3-8 19-5-11 22-8-0 3-2-5 3-2-3 11-3-0 3-2-3 3-2-5

Scale = 1:77.2

Plate Offsets (X, Y): [7:0-2-7,0-2-0], [9:0-2-7,0-2-0], [17:0-3-8,0-6-0], [18:0-3-8,0-6-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.71 | Vert(LL) | -0.31 | 17-18 | >931 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.48 | Vert(CT) | -0.54 | 17-18 | >535 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.29 | Horz(CT) | 0.03 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | Attic | -0.16 | 17-18 | >869 | 360 | Weight: 207 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E *Except* 11-15:2x6 SP

No.2

BOT CHORD 2x8 SP DSS 2x4 SP No 2 WFBS

SLIDER Left 2x6 SP No.2 -- 2-6-0, Right 2x6 SP No.2

-- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-8-11 oc purlins.

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

bracing

REACTIONS (size) 2=0-4-0, 14=0-4-0

Max Horiz 2=-253 (LC 10)

Max Uplift 2=-45 (LC 12), 14=-45 (LC 13) Max Grav 2=1525 (LC 20), 14=1525 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/59 2-4=-1609/33 4-6=-1913/12

6-7=-1237/107, 7-8=-38/797, 8-9=-39/795, 9-10=-1239/107, 10-12=-1907/11,

12-14=-1589/35, 14-15=0/59 **BOT CHORD** 2-19=-126/1429, 16-19=-105/1429,

14-16=0/1230

WEBS 6-18=0/1013, 10-17=0/999, 7-20=-2280/127, 9-20=-2280/127, 8-20=0/255, 4-18=-209/280,

4-19=-647/34, 12-17=-204/282,

12-16=-669/32

NOTES

1) Unbalanced roof live loads have been considered for

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -0-3-10 to 2-8-6, Zone1 2-8-6 to 13-4-0, Zone2 13-4-0 to 17-6-15, Zone1 17-6-15 to 26-11-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 6-7, 9-10, 7-20, 9-20
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 17-18 All bearings are assumed to be SP DSS.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 2 and 45 lb uplift at joint 14.
- 10) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 6,2024



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



| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 1678-A | AT2 | Attic | 2 | 1 | Job Reference (optional) | T35470338 |

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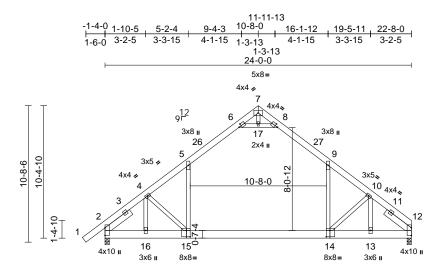
19-5-11

3-2-3

22-8-0

3-2-5

Page: 1



Scale = 1:77.2

Plate Offsets (X, Y): [2:0-0-0,0-0-0], [6:0-2-7,0-2-0], [8:0-2-7,0-2-0], [14:0-3-8,0-6-0], [15:0-3-8,0-6-0]

1-10-5

3-2-5

5-0-8

3-2-3

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defI | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.64 | Vert(LL) | -0.31 | 14-15 | >938 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.48 | Vert(CT) | -0.53 | 14-15 | >539 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.29 | Horz(CT) | 0.03 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | Attic | -0.15 | 14-15 | >872 | 360 | Weight: 203 lb | FT = 20% |

16-3-8

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E **BOT CHORD** 2x8 SP DSS 2x4 SP No.2 WEBS

SLIDER Left 2x6 SP No.2 -- 2-6-0, Right 2x6 SP No.2

-- 2-6-0

BRACING TOP CHORD

Structural wood sheathing directly applied or

6-0-0 oc purlins

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

bracing

REACTIONS (size) 2=0-4-0, 12=0-4-0

Max Horiz 2=243 (LC 9)

Max Uplift 2=-46 (LC 12), 12=-7 (LC 13)

Max Grav 2=1527 (LC 20), 12=1430 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=0/59, 2-4=-1612/33, 4-5=-1919/14, TOP CHORD

5-6=-1242/108, 6-7=-38/794, 7-8=-40/797.

8-9=-1240/107. 9-10=-1919/12.

10-12=-1635/41 BOT CHORD 2-16=-145/1416, 13-16=-125/1416,

12-13=0/1275

5-15=0/1011, 9-14=0/1014, 6-17=-2284/130,

8-17=-2284/130, 7-17=0/256, 10-14=-226/291, 4-15=-209/280,

10-13=-634/38, 4-16=-649/35

NOTES

WFBS

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -0-3-10 to 2-8-6, Zone1 2-8-6 to 13-4-0, Zone2 13-4-0 to 17-6-15, Zone1 17-6-15 to 25-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 5-6, 8-9, 6-17, 8-17
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-15 All bearings are assumed to be SP DSS
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 12 and 46 lb uplift at joint 2.
- 10) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



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November 6,2024

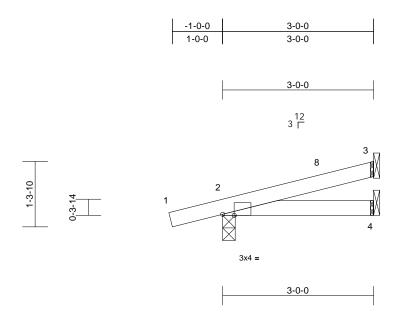


🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|-------------|-----|-----|--------------------------|-----------|
| 1678-A | BJ3 | Corner Jack | 4 | 1 | Job Reference (optional) | T35470339 |

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Scale = 1:15.5

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

| - | | | | | | | | | | | | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defI | L/d | PLATES | GRIP |
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.08 | Vert(LL) | 0.00 | 4-7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.08 | Vert(CT) | -0.01 | 4-7 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MP | | | | | | | Weight: 11 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.

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

bracing.

REACTIONS (size) 2=0-3-0, 3= Mechanical, 4= Mechanical

Max Horiz 2=42 (LC 8)

Max Uplift 2=-74 (LC 8), 3=-28 (LC 12) Max Grav 2=191 (LC 1), 3=67 (LC 1), 4=50

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=0/15, 2-3=-56/14

BOT CHORD 2-4=-26/58

NOTES

- Wind: ASCE 7-22; Vult=130mph (3-second gust) 1) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-0-7 to 1-11-9, Zone1 1-11-9 to 2-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 2 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 3 and 74 lb uplift at joint 2.

LOAD CASE(S) Standard

Julius Lee PE No. 34869

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November 6,2024

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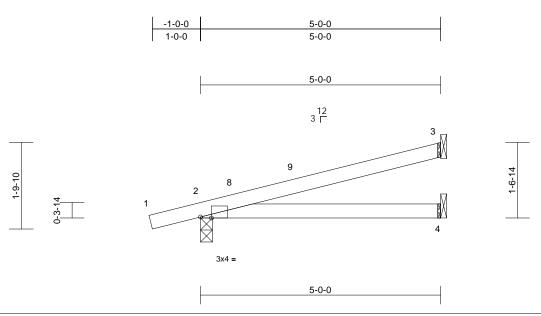


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|-------------|-----|-----|--------------------------|-----------|
| 1678-A | BJ5 | Corner Jack | 4 | 1 | Job Reference (optional) | T35470340 |

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Scale = 1:17.6

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.30 | Vert(LL) | 0.04 | 4-7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.26 | Vert(CT) | -0.06 | 4-7 | >989 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MP | | | | | | | Weight: 17 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.

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

bracing.

REACTIONS (size) 2=0-3-0, 3= Mechanical, 4=

Mechanical Max Horiz 2=61 (LC 8)

Max Uplift 2=-87 (LC 8), 3=-55 (LC 12) 2=266 (LC 1), 3=124 (LC 1), 4=88 Max Grav

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/15, 2-3=-119/45

BOT CHORD 2-4=-85/116

NOTES

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-0-7 to 1-11-9, Zone1 1-11-9 to 4-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 2 SP No.2 .
- Refer to girder(s) for truss to truss connections.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 3 and 87 lb uplift at joint 2.

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 6,2024

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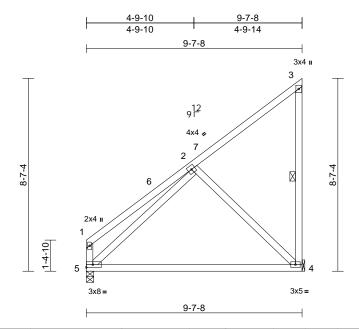
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|-------------|-----|-----|--------------------------|-----------|
| 1678-A | BJ10 | Jack-Closed | 1 | 1 | Job Reference (optional) | T35470341 |

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Scale = 1:42.6

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.51 | Vert(LL) | -0.27 | 4-5 | >417 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.81 | Vert(CT) | -0.54 | 4-5 | >209 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.22 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 64 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 9-11-14 oc

bracing.

WEBS 1 Row at midpt 3-4

REACTIONS (size) 4= Mechanical, 5=0-4-0

Max Horiz 5=306 (LC 11)

Max Uplift 4=-154 (LC 12), 5=-20 (LC 12)

Max Grav 4=438 (LC 19), 5=390 (LC 20) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-5=-220/145, 1-2=-249/117, 2-3=-208/162,

3-4=-156/177 **BOT CHORD** 4-5=-299/308

WFBS 2-5=-212/208. 2-4=-298/291

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 9-5-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 5 SP No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 5 and 154 lb uplift at joint 4.

LOAD CASE(S) Standard



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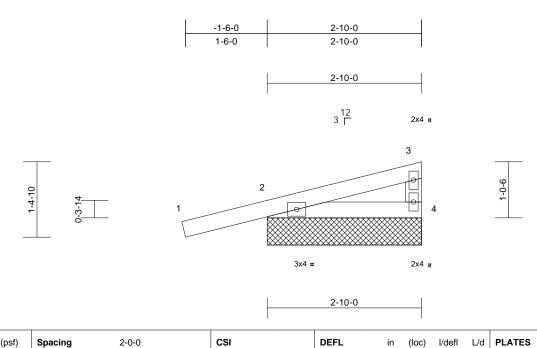


Ply Job Truss Truss Type Qty Bootle Residence T35470342 1678-A EJ2A 1 Monopitch Supported Gable 1 Job Reference (optional)

19 Lumber, Inc., Old Town, FL - 32680

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Nov 05 13:22:19 ID:ZbvCOpWr25kleBHSteMGpvz24dt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



BCDL LUMBER

Scale = 1:15.1 Loading

TCLL (roof)

TCDI

BCLL

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-10-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

20.0

10.0

10.0

0.0*

Plate Grip DOL

Rep Stress Incr

Lumber DOL

1.25

1 25

YES

FBC2023/TPI2014

bracing.

REACTIONS (size) 2=2-10-0, 4=2-10-0, 5=2-10-0 2=35 (LC 11), 5=35 (LC 11) Max Horiz

2=-106 (LC 8), 4=-14 (LC 12), Max Uplift 5=-106 (LC 8)

2=226 (LC 1), 4=84 (LC 1), 5=226 Max Grav (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/22, 2-3=-85/24, 3-4=-54/82

BOT CHORD 2-4=-16/80

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.

7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

0.24

0.05

0.00

Vert(LL)

Vert(CT)

Horz(CT)

n/a

n/a

0.00

n/a 999

n/a 999

n/a

MT20

Weight: 12 lb

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.

TC

BC

WB

Matrix-MP

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 106 lb uplift at joint 2, 14 lb uplift at joint 4 and 106 lb uplift at joint 2.

LOAD CASE(S) Standard



GRIP

244/190

FT = 20%

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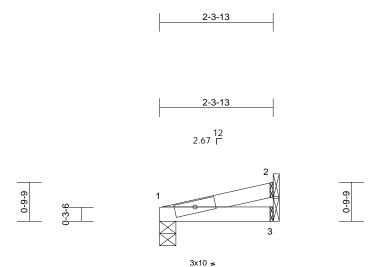


Ply Job Truss Truss Type Qty Bootle Residence T35470343 1678-A EJ2B Jack-Open 2 1 Job Reference (optional)

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Nov 05 13:22:19 ID:rWRH7_yv4DLrr1tgorU569z?pka-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:22.4

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|------|-------|--------|-----|--------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.03 | Vert(LL) | 0.00 | 5 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.05 | Vert(CT) | 0.00 | 5 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MP | | | | | | | Weight: 7 lb | FT = 20% |

2-3-13

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-3-13 oc purlins.

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

REACTIONS (size) 1=0-4-0, 2= Mechanical, 3= Mechanical

Max Horiz 1=18 (LC 8)

1=-16 (LC 8), 2=-17 (LC 8), 3=-5 Max Uplift

(LC 8)

Max Grav 1=86 (LC 1), 2=47 (LC 1), 3=37

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=-12/9 **BOT CHORD** 1-3=-12/4

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 1 SP No.2 .
- Refer to girder(s) for truss to truss connections.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 1, 17 lb uplift at joint 2 and 5 lb uplift at joint 3.

LOAD CASE(S) Standard



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November 6,2024



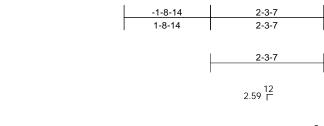
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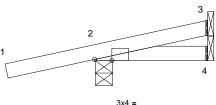
| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|------------------|-----|-----|--------------------------|-----------|
| 1678-A | EJ2C | Jack-Open Girder | 2 | 1 | Job Reference (optional) | T35470344 |

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Page: 1











Scale = 1:16.5

Plate Offsets (X, Y): [2:0-4-4,Edge]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defI | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.22 | Vert(LL) | 0.00 | 7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.02 | Vert(CT) | 0.00 | 7 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.00 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MP | | | | | | | Weight: 10 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-3-7 oc purlins.

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

bracing.

REACTIONS (size) 2=0-4-3, 3= Mechanical, 4=

Mechanical Max Horiz 2=38 (LC 4)

Max Uplift 2=-123 (LC 4), 3=-11 (LC 8) Max Grav 2=238 (LC 1), 3=32 (LC 1), 4=29

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/22, 2-3=-52/35

BOT CHORD 2-4=-34/47

NOTES

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOI = 1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 2 SP No.2 .
- Refer to girder(s) for truss to truss connections.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 3 and 123 lb uplift at joint 2.

LOAD CASE(S) Standard

Julius Lee PE No. 34869

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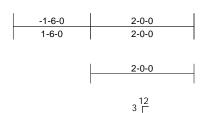


Job Truss Truss Type Qty Ply Bootle Residence T35470345 1678-A EJ2D Jack-Closed 3 1 Job Reference (optional)

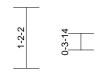
19 Lumber, Inc., Old Town, FL - 32680,

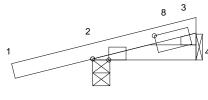
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Page: 1



4x8 =







3x4 =

2-0-0

Scale = 1:14.7

Plate Offsets (X, Y): [2:0-3-12,Edge], [3:1-3-3,0-1-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|------|-------|--------|-----|--------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.18 | Vert(LL) | 0.00 | 7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.02 | Vert(CT) | 0.00 | 7 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MP | | | | | | | Weight: 9 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS 2=0-4-0, 4= Mechanical (size)

Max Horiz 2=28 (LC 8)

Max Uplift 2=-108 (LC 8), 4=-3 (LC 12) Max Grav 2=204 (LC 1), 4=43 (LC 3) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/22, 2-3=-73/27, 3-4=-33/22

BOT CHORD 2-4=-26/76

NOTES

FORCES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-7 to 1-5-9, Zone1 1-5-9 to 1-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2 .

- Refer to girder(s) for truss to truss connections
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 4 and 108 lb uplift at joint 2.

LOAD CASE(S) Standard



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November 6,2024

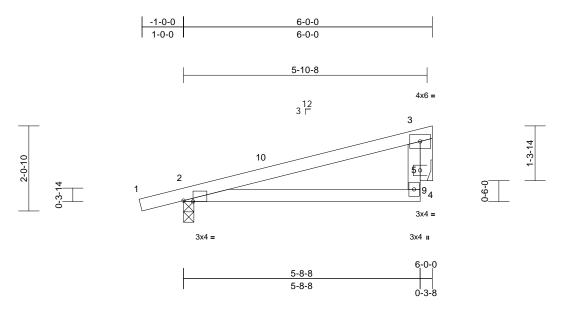


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| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 1678-A | EJ6 | Jack-Open | 18 | 1 | Job Reference (optional) | T35470346 |

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Nov 05 13:22:19 ID:L63X4U8XhtNt7p9yMYJWCqz03uW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:20.2

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.31 | Vert(LL) | 0.02 | 4-8 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.27 | Vert(CT) | -0.05 | 4-8 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MR | | | | | | | Weight: 23 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS 2x4 SP No.2 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-10-8 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 2=0-3-0, 9= Mechanical

Max Horiz 2=60 (LC 8)

Max Uplift 2=-95 (LC 8), 9=-54 (LC 12) Max Grav 2=300 (LC 1), 9=207 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/15, 2-3=-242/87, 4-5=-2/120,

3-5=-100/143 BOT CHORD 2-4=-115/219 WEBS 3-9=-95/0

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-0-7 to 1-11-9, Zone1 1-11-9 to 5-6-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 95 lb uplift at joint 2 and 54 lb uplift at joint 9.

LOAD CASE(S) Standard



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November 6,2024

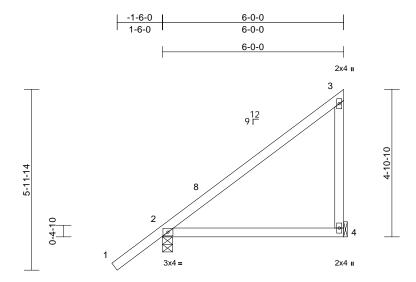


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| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|-------------|-----|-----|--------------------------|-----------|
| 1678-A | EJ6A | Jack-Closed | 3 | 1 | Job Reference (optional) | T35470347 |

Run: 8.82 S. Oct 10.2024 Print: 8.820 S. Oct 10.2024 MiTek Industries. Inc. Tue Nov 05.13:22:19 ID:cDnRz8UaWTUaOu73IDKokUz24dv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:32.4

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.47 | Vert(LL) | 0.07 | 4-7 | >972 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.38 | Vert(CT) | -0.12 | 4-7 | >596 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MP | | | | | | | Weight: 29 lb | FT = 20% |

6-0-0

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS

BRACING

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 (size) 2=0-4-0, 4= Mechanical

Max Horiz 2=186 (LC 11)

Max Uplift 2=-66 (LC 12), 4=-79 (LC 12) Max Grav 2=342 (LC 1), 4=252 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/57, 2-3=-280/158, 3-4=-195/227

BOT CHORD 2-4=-84/131

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-7-1 to 1-4-15, Zone1 1-4-15 to 5-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2.
- 7) Refer to girder(s) for truss to truss connections.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 79 lb uplift at joint 4 and 66 lb uplift at joint 2.

LOAD CASE(S) Standard



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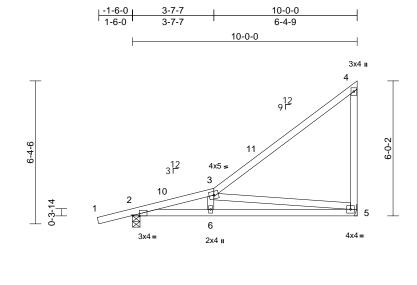


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|-------------|-----|-----|--------------------------|-----------|
| 1678-A | EJ7A | Jack-Closed | 6 | 1 | Job Reference (optional) | T35470348 |

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Nov 05 13:22:20 ID:cDnRz8UaWTUaOu73IDKokUz24dv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:46.9

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

| | | 1 | | 1 | | | | | | | | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defI | L/d | PLATES | GRIP |
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.58 | Vert(LL) | -0.06 | 5-6 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.50 | Vert(CT) | -0.14 | 5-6 | >841 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.73 | Horz(CT) | 0.02 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 53 lb | FT = 20% |

10-0-0

6-6-5

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-7-3 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 9-10-6 oc

bracing.

REACTIONS 2=0-4-0, 5= Mechanical (size)

Max Horiz 2=220 (LC 11)

Max Uplift 2=-114 (LC 8), 5=-120 (LC 12)

Max Grav 2=493 (LC 1), 5=399 (LC 19) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/22, 2-3=-1078/263, 3-4=-242/157,

4-5=-200/284

2-6=-329/1041, 5-6=-345/1027 BOT CHORD WFBS 3-6=0/234, 3-5=-1015/388

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-7 to 1-5-9, Zone1 1-5-9 to 9-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2.

3-5-11

3-5-11

- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 120 lb uplift at joint 5 and 114 lb uplift at joint 2.

LOAD CASE(S) Standard



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November 6,2024



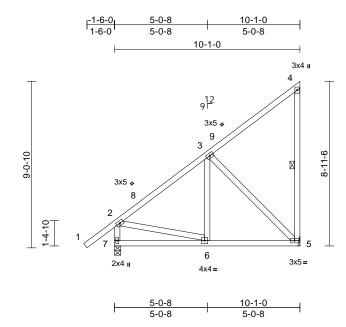
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|-------------|-----|-----|--------------------------|-----------|
| 1678-A | EJ7C | Jack-Closed | 2 | 1 | Job Reference (optional) | T35470349 |

Run: 8.82 S. Oct 10.2024 Print: 8.820 S. Oct 10.2024 MiTek Industries. Inc. Tue Nov.05.13:22:20. ID:5PLqAUVCHncR01iGJwr1Hiz24du-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:57.6

| Loading | (psf) | Spacing | 2-0-0 | csi | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.51 | Vert(LL) | -0.02 | 5-6 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.24 | Vert(CT) | -0.04 | 5-6 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.29 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 74 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 8-1-0 oc

bracing.

WEBS 1 Row at midpt 4-5

REACTIONS (size) 5= Mechanical, 7=0-4-0

Max Horiz 7=340 (LC 9)

Max Uplift 5=-159 (LC 12), 7=-63 (LC 12)

Max Grav 5=450 (LC 19), 7=505 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-7=-462/233, 1-2=0/62, 2-3=-419/103,

3-4=-205/170, 4-5=-160/175 **BOT CHORD** 6-7=-528/418 5-6=-267/346

WFBS 2-6=-75/279, 3-6=0/194, 3-5=-362/239

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-7-1 to 1-4-15, Zone1 1-4-15 to 9-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 7 SP No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 7 and 159 lb uplift at joint 5.

LOAD CASE(S) Standard



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



| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|-----------------------|-----|-----|--------------------------|-----------|
| 1678-A | G1 | Attic Supported Gable | 1 | 1 | Job Reference (optional) | T35470350 |

Run: 8.82 S. Oct 10.2024 Print: 8.820 S. Oct 10.2024 MiTek Industries. Inc. Tue Nov 05.13:22:20 ID:OyqMdLZZEklZhGZlsYsDB1z08Ma-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

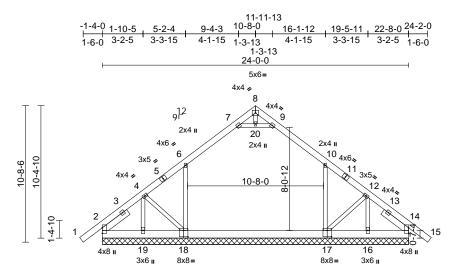
19-5-11

3-2-3

22-8-0

3-2-5

Page: 1



Scale = 1:77.2

Plate Offsets (X, Y): [14:0-0-0,0-0-0], [17:0-4-0,0-6-0], [18:0-4-0,0-6-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|---------------------------------------|-----------------|-----------|------|----------|------|-------|--------|-----|----------------|----------|
| - | vi / | - - - - - - - - - - | | | | | / | (100) | | | _ | |
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.08 | Vert(LL) | n/a | - | n/a | | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.13 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.06 | Horz(CT) | 0.00 | 14 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 207 lb | FT = 20% |

16-3-8

11-3-0

LUMBER

TOP CHORD 2x6 SP No.2 **BOT CHORD** 2x8 SP DSS 2x4 SP No.2 WEBS

SLIDER Left 2x6 SP No.2 -- 2-6-0, Right 2x6 SP No.2 -- 2-6-0

BRACING

TOP CHORD

Structural wood sheathing directly applied or

6-0-0 oc purlins

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

bracing.

REACTIONS (size) 2=24-0-0, 14=24-0-0, 16=24-0-0, 17=24-0-0, 18=24-0-0, 19=24-0-0

Max Horiz 2=-182 (LC 10)

Max Uplift 2=-12 (LC 13), 14=-20 (LC 13),

16=-78 (LC 18), 17=-66 (LC 13), 18=-59 (LC 12), 19=-78 (LC 18)

Max Grav 2=355 (LC 1), 14=358 (LC 21),

16=147 (LC 1), 17=671 (LC 21),

18=663 (LC 20), 19=147 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

> 1-2=0/59, 2-4=-149/30, 4-6=-198/43, 6-7=-149/65, 7-8=-125/47, 8-9=-125/48,

9-10=-149/65. 10-12=-198/41.

12-14=-139/17, 14-15=0/59

BOT CHORD 2-19=-73/194, 16-19=-73/204, 14-16=-12/159 WFBS

6-18=-125/83, 10-17=-123/81,

12-17=-73/134, 7-20=-33/38, 9-20=-33/38, 8-20=-3/2, 12-16=-174/27, 4-18=-76/122,

4-19=-174/33

NOTES

TOP CHORD

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (10.0 psf) on member(s). 6-7, 9-10, 7-20, 9-20
- All bearings are assumed to be SP DSS
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 2, 59 lb uplift at joint 18, 66 lb uplift at joint 17, 20 lb uplift at joint 14, 78 lb uplift at joint 16 and 78 lb uplift at joint 19.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at ioint(s) 2.
- 11) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

1-10-5

3-2-5

5-0-8

3-2-3



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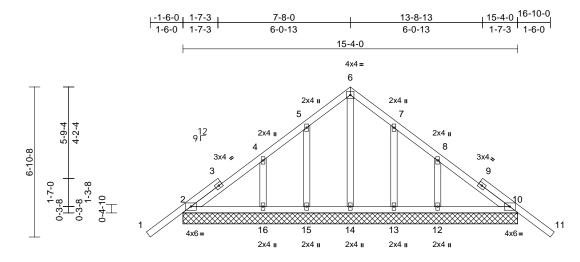
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|------------------------|-----|-----|--------------------------|-----------|
| 1678-A | G2 | Common Supported Gable | 1 | 1 | Job Reference (optional) | T35470351 |

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Page: 1



15-4-0 Scale = 1:47.5

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.19 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.07 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.08 | Horz(CT) | 0.00 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 87 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size)

2=15-4-0, 10=15-4-0, 12=15-4-0, 13=15-4-0, 14=15-4-0, 15=15-4-0, 16=15-4-0, 17=15-4-0, 20=15-4-0

Max Horiz 2=-163 (LC 10), 17=-163 (LC 10)

Max Uplift 2=-26 (LC 13), 10=-41 (LC 13),

12=-105 (LC 13), 13=-76 (LC 13), 15=-78 (LC 12), 16=-100 (LC 12),

17=-26 (LC 13), 20=-41 (LC 13) Max Grav 2=237 (LC 25), 10=237 (LC 26),

12=265 (LC 20), 13=147 (LC 20), 14=200 (LC 22), 15=150 (LC 19),

16=260 (LC 19), 17=237 (LC 25), 20=237 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/57, 2-4=-123/137, 4-5=-67/88,

5-6=-59/158, 6-7=-59/158, 7-8=-30/72,

8-10=-118/97, 10-11=0/57 **BOT CHORD** 2-16=-92/180, 15-16=-92/180,

14-15=-92/180. 13-14=-92/180.

12-13=-92/180. 10-12=-92/180

WEBS 6-14=-154/0, 5-15=-125/124, 4-16=-185/165,

7-13=-123/124, 8-12=-189/164

NOTES

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 2, 41 lb uplift at joint 10, 78 lb uplift at joint 15, 100 lb uplift at joint 16, 76 lb uplift at joint 13, 105 lb uplift at joint 12, 26 lb uplift at joint 2 and 41 lb uplift at joint 10.

LOAD CASE(S) Standard



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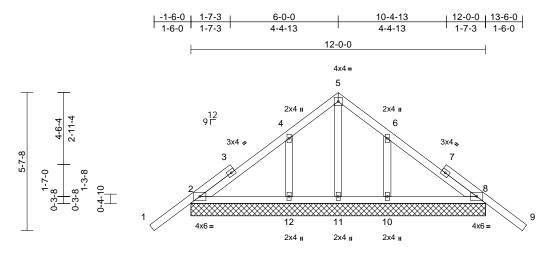
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|------------------------|-----|-----|--------------------------|-----------|
| 1678-A | G3 | Common Supported Gable | 1 | 1 | Job Reference (optional) | T35470352 |

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Page: 1



12-0-0 Scale = 1:42.7

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.22 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.09 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.04 | Horz(CT) | 0.00 | 16 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 64 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

10-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 2=12-0-0, 8=12-0-0, 10=12-0-0, 11=12-0-0, 12=12-0-0, 13=12-0-0,

16=12-0-0

Max Horiz 2=-132 (LC 10), 13=-132 (LC 10)

Max Uplift 2=-36 (LC 12), 8=-51 (LC 13), 10=-125 (LC 13), 12=-123 (LC 12),

13=-36 (LC 12), 16=-51 (LC 13)

Max Grav 2=227 (LC 25), 8=227 (LC 26),

10=307 (LC 20), 11=149 (LC 22)

12=304 (LC 19), 13=227 (LC 25),

16=227 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

1-2=0/57, 2-4=-140/163, 4-5=-12/111,

5-6=-10/109, 6-8=-136/132, 8-9=0/57

BOT CHORD 2-12=-124/202, 11-12=-124/202, 10-11=-124/202, 8-10=-124/202

WEBS 5-11=-140/0, 4-12=-216/219, 6-10=-217/219

NOTES

TOP CHORD

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 2, 51 lb uplift at joint 8, 123 lb uplift at joint 12, 125 lb uplift at joint 10, 36 lb uplift at joint 2 and 51 lb uplift at joint 8.

LOAD CASE(S) Standard



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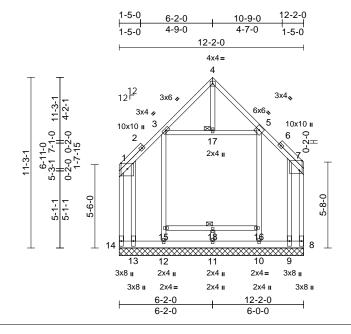
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|---------------|-----|-----|--------------------------|-----------|
| 1678-A | G4 | Common Girder | 2 | 1 | Job Reference (optional) | T35470353 |

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Page: 1



Scale = 1:66.4

Plate Offsets (X, Y): [1:0-4-8,0-5-0], [7:0-7-8,0-2-4]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defI | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|-----------|------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.25 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.08 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.32 | Horiz(TL) | 0.00 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 137 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP No.2 2x4 SP No.2 WEBS 2x4 SP No.2 OTHERS

BRACING

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.

JOINTS 1 Brace at Jt(s): 17,

18

REACTIONS (size) 8=12-2-0, 9=12-2-0, 10=12-2-0,

11=12-2-0, 12=12-2-0, 13=12-2-0,

14=12-2-0 Max Horiz 14=329 (LC 5)

Max Uplift 8=-775 (LC 5), 9=-747 (LC 4),

10=-106 (LC 9), 12=-114 (LC 8), 13=-800 (LC 5), 14=-824 (LC 4)

Max Grav 8=790 (LC 6), 9=815 (LC 7),

10=337 (LC 1), 11=133 (LC 3), 12=346 (LC 1), 13=856 (LC 6),

14=851 (LC 7)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-14=-785/753 1-3=-134/116 3-4=-198/75 4-5=-195/78, 5-7=-117/115, 7-8=-727/703

BOT CHORD 13-14=-265/247, 12-13=-185/167,

11-12=-183/165, 10-11=-183/165, 9-10=-182/164, 8-9=-106/89

WEBS 12-15=-294/140, 3-15=-294/140, 10-16=-284/131, 5-16=-284/131,

3-17=-13/93, 5-17=-13/93, 15-18=-5/2, 16-18=-5/2, 1-13=-729/726, 7-9=-684/673,

4-17=-10/1, 11-18=0/0

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 3) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely
- braced against lateral movement (i.e. diagonal web).
- Vertical gable studs spaced at 2-0-0 oc and horizontal gable studs spaced at 6-3-8 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SP No.2.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 824 lb uplift at joint 14, 775 lb uplift at joint 8, 114 lb uplift at joint 12, 106 lb uplift at joint 10, 800 lb uplift at joint 13 and 747 lb uplift at joint 9.

LOAD CASE(S) Standard



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| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|-----------------------|-----|-----|--------------------------|-----------|
| 1678-A | GR1 | Piggyback Base Girder | 1 | 1 | Job Reference (optional) | T35470354 |

Run: 8.82 S Sep 12 2024 Print: 8.820 S Sep 12 2024 MiTek Industries, Inc. Wed Nov 06 08:08:41 ID:GWV_UEe6h9_tqk2NSkYcD0z24dj-UZSwodpK9SioFmx3J4AUb62rB1ymSfEvklzKVVyLzua

Page: 1

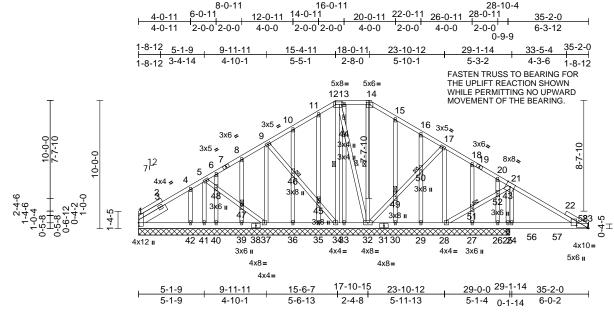


Plate Offsets (X, Y): [1:0-3-4,0-0-6], [12:0-6-0,0-2-4], [14:0-3-0,0-1-12], [23:0-1-4,0-0-10], [23:0-2-12,0-11-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.41 | Vert(LL) | 0.05 | 24-55 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.57 | Vert(CT) | -0.07 | 24-55 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.21 | Horz(CT) | 0.01 | 23 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 354 lb | FT = 20% |

LUMBER

Scale = 1:73.6

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP No.2 2x4 SP No.2 WEBS OTHERS 2x4 SP No 2 SLIDER Left 2x6 SP No.2 -- 2-6-0

BRACING

JOINTS

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

WFBS 1 Row at midpt 12-34, 12-32, 14-32

1 Brace at Jt(s): 45, 46, 47, 49, 50, 51

REACTIONS All bearings 29-0-0. except 23= Mechanical,

25=0-3-8

(lb) - Max Horiz 1=-236 (LC 4)

Max Uplift All uplift 100 (lb) or less at joint(s) 1, 27, 28, 29, 30, 32, 33, 34, 35, 36,

37, 39, 40 except 23=-109 (LC 9), 25=-609 (LC 9), 26=-1121 (LC 16), 41=-127 (LC 15), 42=-151 (LC 8)

Max Grav All reactions 250 (lb) or less at joint

(s) 1, 28, 29, 30, 32, 33, 34, 35, 36, 37, 39, 40, 41 except 23=438 (LC 16), 25=1930 (LC 16), 26=381 (LC 9), 27=268 (LC 16), 42=383 (LC

15)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown. TOP CHORD 21-22=-143/360, 22-23=-159/264 **BOT CHORD**

33-34=-153/256, 32-33=-153/256, 27-28=-260/186, 26-27=-260/186, 25-26=-260/186, 24-25=-260/186,

24-56=-260/186, 56-57=-260/186,

23-57=-260/186 **WEBS** 25-43=-378/125

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOI = 1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 1, 37, 34, 32, 28, 33, 35, 36, 39, 40, 30, 29, 27 except (jt=lb) 23=109, 41=127, 42=151, 26=1121, 25=609.
- 12) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.

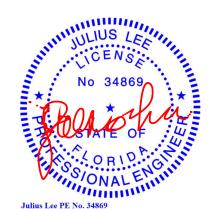
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 236 lb down and 89 lb up at 30-8-12, and 236 lb down and 89 lb up at 32-8-12, and 243 lb down and 86 lb up at 34-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) 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

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (lb/ft)

Vert: 1-12=-60, 12-14=-60, 14-23=-60, 1-53=-20 Concentrated Loads (lb)

Vert: 56=-201 (F), 57=-201 (F), 58=-208 (F)



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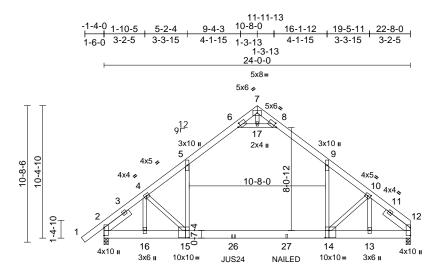
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|--------------|-----|-----|--------------------------|-----------|
| 1678-A | GR2 | Attic Girder | 1 | 1 | Job Reference (optional) | T35470355 |

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Nov 05 13:22:21 ID:K8OD3Zcs9YkAbQu_LJV88bz24dl-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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19-5-11 1-10-5 5-0-8 16-3-8 22-8-0 3-2-5 3-2-3 3-2-3

Scale = 1:77.2

Plate Offsets (X, Y): [2:0-0-0,0-0-0], [6:0-2-11,0-2-12], [8:0-2-11,0-2-12], [10:0-0-0,0-0-0], [14:0-3-8,0-6-12], [15:0-3-8,0-6-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.88 | Vert(LL) | -0.39 | 14-15 | >742 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.65 | Vert(CT) | -0.73 | 14-15 | >396 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.35 | Horz(CT) | 0.04 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | Attic | -0.18 | 14-15 | >730 | 360 | Weight: 203 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E **BOT CHORD** 2x8 SP DSS 2x4 SP No.2 WEBS

SLIDER Left 2x6 SP No.2 -- 2-6-0, Right 2x6 SP No.2

-- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-9-14 oc purlins.

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

bracing, Except:

8-0-8 oc bracing: 14-15. REACTIONS (size) 2=0-4-0, 12=0-4-0

Max Horiz 2=243 (LC 5)

Max Uplift 2=-295 (LC 8), 12=-301 (LC 9) Max Grav 2=1913 (LC 16), 12=1827 (LC 17)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/59, 2-4=-2004/304, 4-5=-2622/489,

> 5-6=-1594/358, 6-7=-313/1197, 7-8=-327/1202, 8-9=-1589/343,

9-10=-2628/514, 10-12=-2044/383 **BOT CHORD** 2-16=-349/1773, 13-16=-349/1773,

12-13=-265/1645

WEBS 4-16=-1070/346, 4-15=-265/402, 5-15=-294/1497, 9-14=-358/1514

6-17=-3264/808, 8-17=-3264/808, 7-17=-52/349, 10-14=-190/370,

10-13=-1040/295

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 5-6, 8-9, 6-17, 8-17
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-15
- All bearings are assumed to be SP DSS.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 301 lb uplift at joint 12 and 295 lb uplift at joint 2.
- 10) Use MiTek JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 11-5-12 from the left end to connect truss(es) to back face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) "NAILED" indicates Girder: 3-16d (0.162" x 3.5") toenails per NDS guidelines.
- 13) Attic room checked for L/360 deflection.
- 14) 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

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (lb/ft)

Vert: 1-5=-60, 5-6=-80, 6-7=-60, 7-8=-60, 8-9=-80, 9-12=-60, 15-22=-20, 14-15=-40, 14-18=-20,

6-17=-20, 8-17=-20 Concentrated Loads (lb)

Vert: 26=-384 (B), 27=-237 (B)



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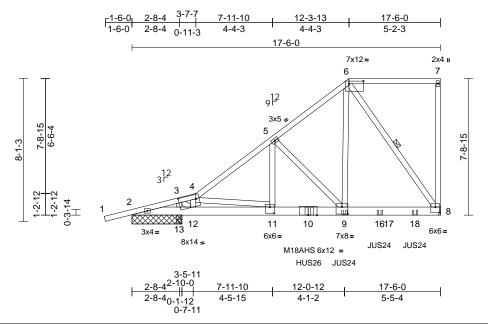
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|-----------------|-----|-----|--------------------------|-----------|
| 1678-A | GR3 | Half Hip Girder | 1 | 1 | Job Reference (optional) | T35470356 |

Run: 8.82 S. Oct 10.2024 Print: 8.820 S. Oct 10.2024 MiTek Industries. Inc. Tue Nov.05.13:22:22 ID:0u?mOuCJvjDernDBdKmL10z08JA-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:55.8

Plate Offsets (X, Y): [6:0-9-12,0-1-12], [8:0-3-0,0-3-12], [9:0-4-0,0-4-12], [11:0-3-0,0-4-4], [12:0-11-12,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | csı | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.38 | Vert(LL) | 0.07 | 9-11 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.60 | Vert(CT) | -0.13 | 9-11 | >999 | 180 | M18AHS | 186/179 |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.91 | Horz(CT) | 0.01 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 128 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 2x6 SP 2400F 2.0E **BOT CHORD** 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-5-7 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

WEBS 1 Row at midnt 6-8

2=2-10-0, 8= Mechanical, **REACTIONS** (size) 13=2-10-0

Max Horiz 2=289 (LC 5)

Max Uplift 2=-271 (LC 25), 8=-688 (LC 5),

13=-565 (LC 8)

2=75 (LC 20), 8=2731 (LC 15), Max Grav

13=2361 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/22, 2-3=-266/876, 3-4=-725/140,

4-5=-2702/648, 5-6=-2009/523, 6-7=-98/77,

7-8=-150/81

BOT CHORD 2-13=-886/192, 12-13=-886/183, 11-12=-304/1004, 9-11=-620/2197,

8-9=-429/1463

WEBS 4-12=-1811/522 4-11=-322/1215

> 5-11=-181/761, 5-9=-888/346, 6-9=-766/3024, 6-8=-2523/649

3-13=-1469/313, 3-12=-400/1820

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 13 SP 2400F 2.0E, Joint 13 SP 2400F 2.0E
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 688 lb uplift at joint 8, 271 lb uplift at joint 2 and 565 lb uplift at joint 13.
- 11) Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent at 10-0-12 from the left end to connect truss(es) to front face of bottom
- 12) Use MiTek JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 12-0-12 from the left end to 16-0-12 to connect truss(es) to front face of bottom chord.
- 13) Fill all nail holes where hanger is in contact with lumber.
- 14) 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

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (lb/ft)

Vert: 1-4=-60, 4-6=-60, 6-7=-60, 2-8=-20

Concentrated Loads (lb) Vert: 10=-1602 (F), 9=-480 (F), 16=-480 (F), 18=-480



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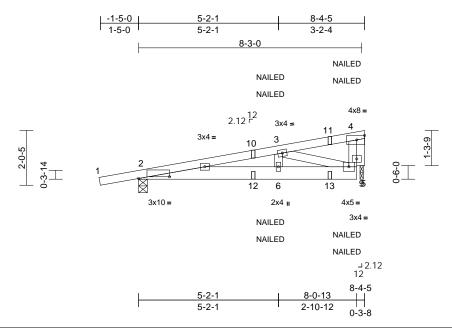
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|---------------------|-----|-----|--------------------------|-----------|
| 1678-A | GR4 | Roof Special Girder | 2 | 1 | Job Reference (optional) | T35470357 |

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Page: 1



Scale = 1:24.6

Plate Offsets (X, Y): [2:1-1-11,0-0-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.28 | Vert(LL) | -0.03 | 6-8 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.34 | Vert(CT) | -0.05 | 6-8 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.13 | Horz(CT) | 0.00 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MP | | , , | | | | | Weight: 41 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 2x6 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS 2x4 SP No.2 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-11-5 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-3-14, 9=0-1-8

Max Horiz 2=68 (LC 4)

Max Uplift 2=-148 (LC 4), 9=-94 (LC 8) Max Grav 2=467 (LC 1), 9=456 (LC 1)

(lb) - Maximum Compression/Maximum

FORCES Tension

1-2=0/17, 2-3=-951/174, 3-4=-165/26,

TOP CHORD 4-5=-35/348

BOT CHORD

2-6=-199/930, 5-6=-202/943

WEBS 3-6=0/125, 3-5=-809/174, 4-9=-477/98

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Bearings are assumed to be: Joint 2 SP No.2, Joint 9
- Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 148 lb uplift at joint 2 and 94 lb uplift at joint 9.
- 10) "NAILED" indicates Girder: 3-16d (0.162" x 3.5") toenails per NDS guidelines.
- 11) 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

Dead + Roof Live (balanced): Lumber Increase=1.25,

Plate Increase=1.25

Uniform Loads (lb/ft)

Vert: 1-4=-60, 2-5=-20

Concentrated Loads (lb)

Vert: 11=-104 (F=-52, B=-52), 12=-23 (F=-12,

B=-12), 13=-79 (F=-40, B=-40)



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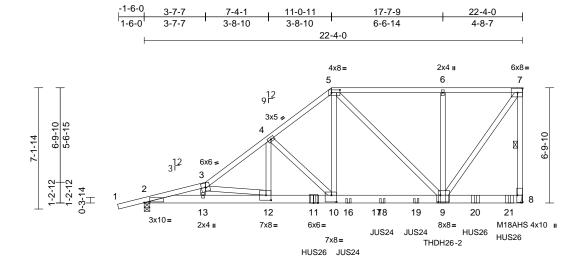
| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|-----------------|-----|-----|--------------------------|-----------|
| 1678-A | GR5 | Half Hip Girder | 1 | 2 | Job Reference (optional) | T35470358 |

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Nov 05 13:22:22 ID:dhtmWQgD7VuIHfl1txWL3xz08MR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

17-7-9

6-5-2

Page: 1



Scale = 1:62

Plate Offsets (X, Y): [2:0-3-12,0-0-8], [5:0-6-0,0-2-0], [8:Edge,0-3-8], [9:0-1-8,0-4-12], [10:0-3-8,0-4-12], [12:0-3-8,0-3-8]

3-5-11

| - | | | | | | | | | | | | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defI | L/d | PLATES | GRIP |
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.77 | Vert(LL) | -0.17 | 12-13 | >999 | 240 | M18AHS | 186/179 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.93 | Vert(CT) | -0.33 | 12-13 | >809 | 180 | MT20 | 244/190 |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.80 | Horz(CT) | 0.05 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 320 lb | FT = 20% |

11-2-7

3-10-6

7-4-1

3-10-6

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x6 SP 2400F 2.0E *Except* 11-8:2x6 SP

No.2

2x4 SP No.2

WFBS BRACING

TOP CHORD Structural wood sheathing directly applied or 3-5-10 oc purlins, except end verticals.

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

bracing WEBS

7-8 1 Row at midpt

2=0-4-0, 8= Mechanical REACTIONS (size)

Max Horiz 2=253 (LC 5)

Max Uplift 2=-756 (LC 8), 8=-1505 (LC 5)

Max Grav 2=3370 (LC 18), 8=7329 (LC 18)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/25, 2-3=-11140/2358, 3-4=-7647/1674,

4-5=-5950/1328, 5-6=-4307/926,

6-7=-4307/926, 7-8=-6044/1337

2-13=-2390/10887, 12-13=-2432/11027,

10-12=-1434/6222, 9-10=-1145/4818, 8-9=-77/80

3-13=-824/252, 3-12=-4928/1071,

4-12=-450/2105, 4-10=-2040/562,

5-10=-899/3885, 5-9=-770/269,

6-9=-375/212, 7-9=-1589/7297

NOTES

WEBS

BOT CHORD

2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0

Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-5-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Bearings are assumed to be: Joint 2 SP 2400F 2.0E.
- 11) Refer to girder(s) for truss to truss connections.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1505 lb uplift at joint 8 and 756 lb uplift at joint 2.
- 13) Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 9-6-0 oc max. starting at 10-0-12 from the left end to 21-6-12 to connect truss(es) to back face of bottom chord.
- 14) Use MiTek JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 12-0-12 from the left end to 16-0-12 to connect truss(es) to back face of bottom chord.

- 15) Use MiTek THDH26-2 (With 22-16d nails into Girder & 8-16d nails into Truss) or equivalent at 17-7-9 from the left end to connect truss(es) to back face of bottom
- 16) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

22-4-0

4-8-7

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (lb/ft)

Vert: 1-3=-60, 3-5=-60, 5-7=-60, 2-8=-20

Concentrated Loads (lb)

Vert: 11=-1560 (B), 9=-3132 (B), 16=-480 (B), 18=-480 (B), 19=-480 (B), 20=-994 (B), 21=-998 (B)



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

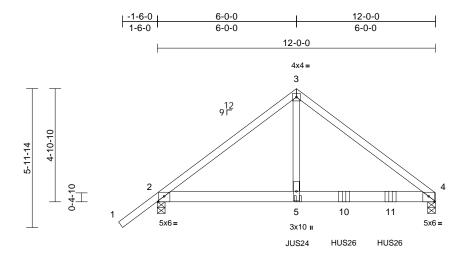


Qty Job Truss Truss Type Ply Bootle Residence T35470359 1678-A GR7 2 Common Girder Job Reference (optional)

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Nov 05 13:22:22 ID:kj3MhaekST6kSudZ0S3rmEz24di-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



6-0-0 12-0-0 6-0-0 6-0-0

Scale = 1:45.4

Plate Offsets (X, Y): [2:0-3-0,Edge], [4:0-3-0,Edge]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.56 | Vert(LL) | -0.10 | 5-7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.65 | Vert(CT) | -0.19 | 5-7 | >746 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.28 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 120 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP 2400F 2.0E 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS 2=0-4-0, 4=0-4-0 (size)

Max Horiz 2=131 (LC 5)

Max Uplift 2=-287 (LC 8), 4=-481 (LC 9)

Max Grav 2=1507 (LC 15), 4=3001 (LC 16) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/57, 2-3=-2545/463, 3-4=-2808/450

BOT CHORD 2-5=-298/1984, 4-5=-298/1984 WEBS

3-5=-403/2590

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-9-0
 - Bottom chords connected as follows: 2x6 2 rows staggered at 0-7-0 oc.
- Web connected as follows: 2x4 1 row at 0-9-0 oc. All loads are considered equally applied to all plies,
- except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP 2400F 2.0E
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 481 lb uplift at joint 4 and 287 lb uplift at joint 2.
- 10) Use MiTek JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 6-0-12 from the left end to connect truss(es) to back face of bottom chord.
- 11) Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 8-0-12 from the left end to 10-0-12 to connect truss(es) to back face of bottom chord.
- 12) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (lb/ft)

Vert: 1-3=-60, 3-4=-60, 2-4=-20

Concentrated Loads (lb)

Vert: 5=-382 (B), 10=-1383 (B), 11=-1383 (B)



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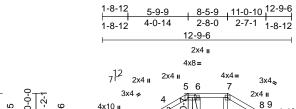
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

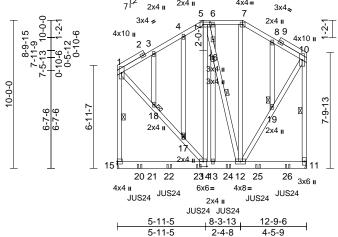


| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|-----------------------|-----|-----|--------------------------|-----------|
| 1678-A | GR8 | Piggyback Base Girder | 1 | 1 | Job Reference (optional) | T35470360 |

Run: 8.82 S. Oct 10.2024 Print: 8.820 S. Oct 10.2024 MiTek Industries. Inc. Tue Nov 05.13:22:22 ID:9WMGKRIk2940OQ85nYvkjQz08h?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:61.4

Plate Offsets (X, Y): [5:0-5-8,0-2-0], [14:0-3-0,0-4-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.38 | Vert(LL) | 0.07 | 14-15 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.67 | Vert(CT) | -0.13 | 14-15 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.42 | Horz(CT) | 0.00 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 179 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP No.2 2x4 SP No.2 WEBS 2x4 SP No.2 OTHERS

BRACING

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

WFBS 1 Row at midpt **JOINTS** 1 Brace at Jt(s): 17,

18, 19

REACTIONS (size) 11= Mechanical, 15= Mechanical

Max Horiz 15=323 (LC 7)

Max Uplift 11=-512 (LC 9), 15=-486 (LC 8) Max Grav 11=1734 (LC 15), 15=1716 (LC 16)

5-12, 1-15, 10-11

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-3=-773/219, 3-4=-751/236, 4-5=-692/243,

5-6=-568/231, 6-7=-568/231, 7-8=-643/250, 8-10=-672/236, 1-15=-1190/362,

10-11=-1325/404

BOT CHORD 14-15=-281/272, 13-14=-311/717,

12-13=-311/717, 11-12=-92/79 **WEBS** 5-14=-196/501, 5-16=-377/179,

12-16=-508/257, 7-12=-99/227, 1-18=-329/998, 17-18=-325/946 14-17=-335/965, 12-19=-375/1087, 10-19=-376/1118, 6-16=-102/60,

13-16=-81/182, 4-17=-13/26, 3-18=-82/49,

8-19=-44/30

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 3) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 486 lb uplift at joint 15 and 512 lb uplift at joint 11.
- 12) Use MiTek JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-6-2 from the left end to 11-6-2 to connect truss(es) to back face of bottom chord.
- 13) Fill all nail holes where hanger is in contact with lumber.
- 14) 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

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (lb/ft) Vert: 1-5=-60, 5-7=-60, 7-10=-60, 11-15=-20

Concentrated Loads (lb)

Vert: 20=-367 (B), 22=-367 (B), 23=-367 (B), 24=-367 (B), 25=-367 (B), 26=-367 (B)



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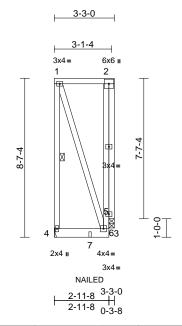
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|-------------|-----|-----|--------------------------|-----------|
| 1678-A | GR9 | Flat Girder | 1 | 1 | Job Reference (optional) | T35470361 |

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Page: 1



Scale = 1:54.1

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defI | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.58 | Vert(LL) | 0.01 | 3-4 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.23 | Vert(CT) | -0.01 | 3-4 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.38 | Horz(CT) | -0.01 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MP | | | | | | | Weight: 58 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 2x6 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS 2x4 SP No.2 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-8 oc purlins, except end verticals.

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

bracing.

WEBS 1 Row at midpt 1-4

REACTIONS (size) 4= Mechanical, 6=0-3-8

Max Horiz 4=-228 (LC 6)

Max Uplift 4=-274 (LC 4), 6=-356 (LC 5) Max Grav 4=336 (LC 26), 6=544 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-4=-216/296, 1-2=-20/13, 3-5=-314/525,

2-5=-314/525

BOT CHORD 3-4=-96/118

WEBS 1-3=-301/263, 2-6=-544/357

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 6 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 274 lb uplift at joint 4 and 356 lb uplift at joint 6.
- 11) "NAILED" indicates Girder: 3-16d (0.162" x 3.5") toenails per NDS guidelines.
- 12) 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

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (lb/ft) Vert: 1-2=-60, 3-4=-20 Concentrated Loads (lb) Vert: 7=-353 (F)



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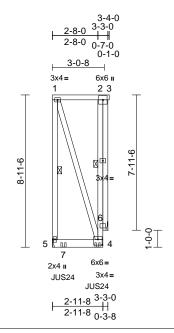
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|---------------------|-----|-----|--------------------------|-----------|
| 1678-A | GR10 | Roof Special Girder | 1 | 1 | Job Reference (optional) | T35470362 |

Run: 8.82 S. Oct 10.2024 Print: 8.820 S. Oct 10.2024 MiTek Industries. Inc. Tue Nov 05.13:22:23 ID:AEiygmxOuZy8iAdeHXTt1nz08RG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:47.6

Plate Offsets (X, Y): [4:0-3-0,0-4-0]

| | | I | | | | | | | | | | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defI | L/d | PLATES | GRIP |
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.14 | Vert(LL) | 0.00 | 4-5 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.15 | Vert(CT) | -0.01 | 4-5 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.01 | Horz(CT) | 0.00 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | , , | | | | | Weight: 60 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP No.2 2x4 SP No.2 WEBS 2x4 SP No.2 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-8 oc purlins, except end verticals.

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

bracing

WFBS 1 Row at midpt 1-5. 2-4

5= Mechanical, 6= Mechanical REACTIONS (size)

> Max Uplift 5=-160 (LC 4), 6=-247 (LC 5) Max Grav 5=419 (LC 16), 6=605 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-5=-81/38, 1-2=-5/2, 2-3=0/0, 4-6=-186/547,

2-6=-119/64 **BOT CHORD** 4-5=-1/2WEBS 1-6=-4/9

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 160 lb uplift at joint 5 and 247 lb uplift at joint 6.
- Use MiTek JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-7-12 from the left end to 2-7-12 to connect truss(es) to back face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.
- 11) 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

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (lb/ft)

Vert: 1-2=-60, 2-3=-60, 4-5=-20

Concentrated Loads (lb)

Vert: 4=-366 (B), 7=-367 (B)



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 6,2024



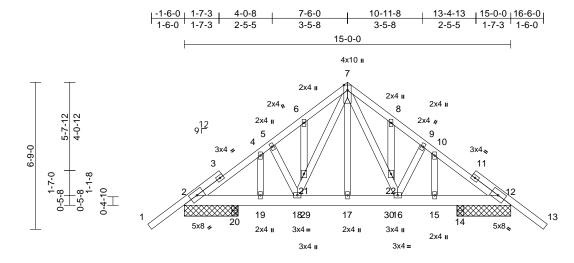
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|---------------|-----|-----|--------------------------|-----------|
| 1678-A | GR11 | Common Girder | 1 | 1 | Job Reference (optional) | T35470363 |

Run: 8.82 F. Oct 10.2024 Print: 8.820 F. Oct 10.2024 MiTek Industries. Inc. Wed Nov.06.09:25:13. ID:c3wJpj2wCgLioGUDGXdzRrz?pkS-R0uMpqSSb3hDMiXPV9t3YFUvCVr1o1z?c?vptqyM7Jr

Page: 1



| L | 2-3-15 | 5-2-5 | 9-9-11 | 12-8-1 | 15-0-0 | ĺ |
|---|--------|--------|--------|--------|--------|---|
| ſ | 2-3-15 | 2-10-7 | 4-7-5 | 2-10-7 | 2-3-15 | |

| Scal | le = | 1:48. |
|------|------|-------|
| | | |

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.19 | Vert(LL) | -0.01 | 16-17 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.25 | Vert(CT) | -0.02 | 16-17 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.15 | Horz(CT) | 0.01 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 117 lb | FT = 20% |

LUMBER

2x4 SP No.2 TOP CHORD **BOT CHORD** 2x6 SP No.2 2x4 SP No.2 WEBS 2x4 SP No.2 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (lb/size) 2=382/2-5-11, 12=379/2-5-11, 14=432/0-3-8, 20=433/0-3-8

Max Horiz 2=157 (LC 7)

Max Uplift 2=-72 (LC 8), 12=-78 (LC 9),

14=-87 (LC 9), 20=-91 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/57, 2-3=-523/72, 3-4=-459/87

4-5=-595/118, 5-6=-560/130, 6-7=-556/168, 7-8=-529/171, 8-9=-553/126, 9-10=-589/109,

10-11=-452/72, 11-12=-517/58, 12-13=0/57

BOT CHORD 2-20=-62/441, 19-20=-62/441,

18-19=-62/441, 18-29=-36/403 17-29=-36/403, 17-30=-36/408,

16-30=-36/408, 15-16=-23/401,

14-15=-23/401, 12-14=-23/401

WEBS 7-22=-87/164, 16-22=-38/67, 9-16=-21/101,

18-21=-33/118, 7-21=-95/202, 5-18=-16/94, 7-17=-23/157, 6-21=-98/66, 4-19=-242/82,

8-22=-70/58. 10-15=-243/77

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 2, 78 lb uplift at joint 12, 91 lb uplift at joint 20 and 87 lb uplift at joint 14.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 15 lb down and 16 lb up at 5-3-5, 26 lb down and 13 lb up at 5-6-14, 19 lb down and 13 lb up at 7-6-14, and 26 lb down and 13 lb up at 9-5-2, and 15 lb down and 16 lb up at 9-8-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) 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

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (lb/ft)

Vert: 1-7=-60, 7-13=-60, 23-26=-20

Concentrated Loads (lb)

Vert: 18=-94 (F), 17=-16 (F), 22=-47 (F), 29=-16 (F), 30=-63 (F)



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November 6,2024



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



| Jol | 0 | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|-----|------|-------|----------------|-----|-----|--------------------------|-----------|
| 16 | 78-A | H1 | Piggyback Base | 1 | 1 | Job Reference (optional) | T35470364 |

Run: 8.82 S. Oct 10.2024 Print: 8.820 S. Oct 10.2024 MiTek Industries. Inc. Tue Nov.05.13:22:23 ID:PuUWjx9RKLtatSp6CgFqlWySpU3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

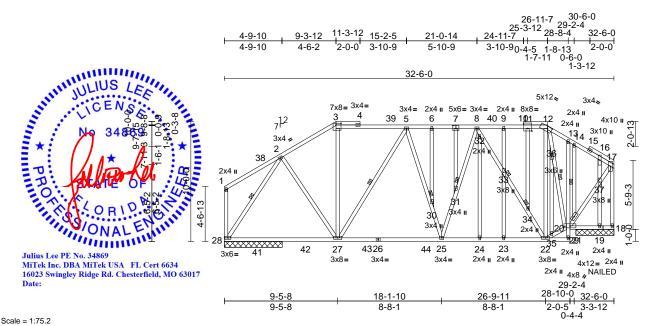


Plate Offsets (X, Y): [3:0-5-0,0-1-12], [7:0-3-0,0-3-0], [11:0-4-0,0-2-8], [12:0-4-8,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|--|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.67 | Vert(LL) | -0.21 | 27-28 | >999 | 240 | MT20 | 244/190 | |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.68 | Vert(CT) | -0.35 | 27-28 | >999 | 180 | | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.45 | Horz(CT) | 0.03 | 19 | n/a | n/a | | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 354 lb | FT = 20% | |

WEBS

OTHERS

BOT CHORD

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except* 28-26:2x4 SP 2400F 2.0E

2x4 SP No.2 2x4 SP No.2

BRACING TOP CHORD Structural wood sheathing directly applied or 4-0-3 oc purlins, except end verticals.

Rigid ceiling directly applied or 6-0-0 oc bracing. Except:

6-0-0 oc bracing: 14-29

WFBS 1 Row at midpt 5-27, 2-28, 12-20

JOINTS 1 Brace at Jt(s): 30,

31, 33, 34

REACTIONS (size) 18=3-2-0, 19=3-2-0, 28=4-10-0

Max Horiz 28=287 (LC 9)

Max Uplift 18=-120 (LC 9), 19=-118 (LC 13),

28=-149 (LC 12)

Max Grav 18=832 (LC 2), 19=779 (LC 2),

28=1443 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-161/142, 2-3=-1238/215

3-5=-1028/212, 5-6=-1195/241.

6-8=-1195/241, 8-9=-658/213, 9-11=-658/213, 11-12=-671/216, 12-13=-625/222,

13-14=-680/188, 14-16=-674/174 16-17=-515/145, 1-28=-181/102,

17-18=-887/103

BOT CHORD 27-28=-300/851, 25-27=-324/1214, 24-25=-273/1089, 23-24=-273/1089,

22-23=-273/1089, 21-22=-12/2, 14-29=-75/26, 20-21=-27/13, 13-20=-58/139,

19-20=-92/98, 18-19=-92/98 2-27=-118/461, 3-27=-12/393,

WEBS 5-27=-433/229, 5-30=-110/108 25-30=-125/124, 25-31=-50/375,

8-31=-65/370, 8-32=-768/208, 32-33=-862/225, 33-34=-843/213, 22-34=-829/218, 12-22=-71/478,

2-28=-1376/220. 20-29=-157/922. 29-37=-156/981, 17-37=-158/964.

22-35=-189/792, 20-35=-176/729,

12-36=-433/115, 20-36=-558/140, 6-30=-16/17, 7-31=-18/19, 24-32=-17/107,

9-33=-33/52, 23-33=-60/63, 11-34=0/21, 35-36=-26/128, 16-37=-409/145,

19-37=-430/151

NOTES

1) Unbalanced roof live loads have been considered for this design

Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-1-12 to 3-4-12, Zone1 3-4-12 to 9-3-12, Zone2 9-3-12 to 13-10-15, Zone1 13-10-15 to 26-11-7, Zone2 26-11-7 to 31-3-12, Zone1 31-3-12 to 32-4-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Bearings are assumed to be: Joint 28 SP 2400F 2.0E, Joint 19 SP No.2.

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| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|----------------|-----|-----|--------------------------|-----------|
| 1678-A | H1 | Piggyback Base | 1 | 1 | Job Reference (optional) | T35470364 |

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Page: 2

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 149 lb uplift at joint 28, 120 lb uplift at joint 18 and 118 lb uplift at joint 19.
- 12) "NAILED" indicates Girder: 3-16d (0.162" x 3.5") toenails per NDS guidelines.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . The design/selection of such connection device(s) is the responsibility of others.
- 14) 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

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (lb/ft)

Vert: 1-3=-60, 3-12=-60, 12-17=-60, 21-28=-20, 18-20=-20

Concentrated Loads (lb)

Vert: 19=-207 (B)



Job Truss Truss Type Qtv Ply Bootle Residence T35470365 1678-A HGR1 Piggyback Base Girder 2 1 Job Reference (optional)

19 Lumber, Inc., Old Town, FL - 32680

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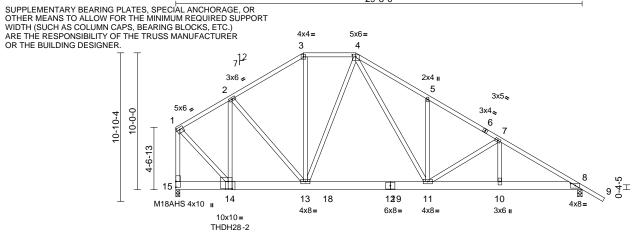
16-5-5

5-3-2

22-5-7

6-0-2





Scale = 1:76.8

Plate Offsets (X, Y): [1:0-2-12,0-2-0], [4:0-3-0,0-1-12], [8:0-4-0,0-1-11], [14:0-3-8,0-6-4]

-7-2-9

3-11-9

2-2-15

5-5-15

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defI | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.53 | Vert(LL) | -0.07 | 11-13 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.51 | Vert(CT) | -0.14 | 11-13 | >999 | 180 | M18AHS | 186/179 |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.71 | Horz(CT) | 0.03 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 489 lb | FT = 20% |

11-2-3

8-11-4

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x8 SP No.2 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-6-10 oc purlins, except end verticals.

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

bracing.

REACTIONS 8=0-4-0, 15=0-3-8, (req. 0-4-9) (size)

Max Horiz 15=-307 (LC 4)

Max Uplift 8=-437 (LC 9), 15=-1464 (LC 8) Max Grav 8=2407 (LC 16), 15=7744 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-5192/1030, 2-3=-3443/705,

3-4=-2934/634, 4-5=-3707/813,

5-7=-3650/665, 7-8=-4091/708, 8-9=0/53,

1-15=-7479/1433

BOT CHORD 14-15=-204/284, 13-14=-870/4585,

11-13=-321/2677, 10-11=-493/3455

8-10=-493/3455

WFBS 7-11=-494/192, 7-10=0/202

1-14=-1227/6534, 3-13=-302/1545,

2-14=-654/2517, 4-13=-340/976,

5-11=-374/240, 4-11=-304/1046,

2-13=-2432/660

NOTES

2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0

Bottom chords connected as follows: 2x8 - 4 rows staggered at 0-3-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for 3) this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone: cantilever left and right exposed: end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) WARNING: Required bearing size at joint(s) 15 greater than input bearing size.
- 11) All bearings are assumed to be SP No.2.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1464 lb uplift at joint 15 and 437 lb uplift at joint 8.
- 13) Use MiTek THDH28-2 (With 36-16d nails into Girder & 10-16d nails into Truss) or equivalent at 11-2-2 from the left end to connect truss(es) to back face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (lb/ft)

Vert: 1-3=-60, 3-4=-60, 4-9=-60, 8-15=-20 Concentrated Loads (lb) Vert: 14=-6790 (B)



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

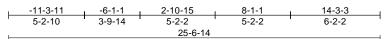


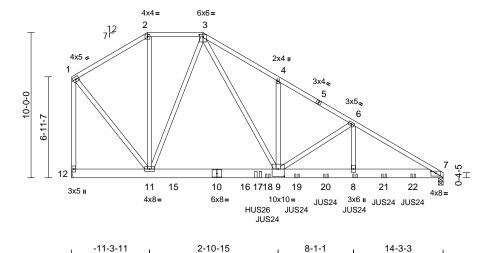
Job Truss Truss Type Qtv Ply Bootle Residence T35470366 1678-A HGR2 Piggyback Base Girder 2 1 Job Reference (optional)

19 Lumber, Inc., Old Town, FL - 32680,

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Scale = 1:73.4

Plate Offsets (X, Y): [3:0-3-0,0-1-12], [7:0-4-0,0-1-11], [9:0-5-0,0-6-0]

5-4-6

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.51 | Vert(LL) | -0.14 | 9-11 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.58 | Vert(CT) | -0.27 | 9-11 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.92 | Horz(CT) | 0.03 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 418 lb | FT = 20% |

5-2-2

6-2-2

8-10-4

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x8 SP No.2 *Except* 10-7:2x8 SP DSS

2x4 SP No.2 WEBS **BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-1-5 oc purlins, except end verticals.

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

bracing.

REACTIONS 7=0-4-0, 12= Mechanical (size)

Max Horiz 12=-322 (LC 4)

Max Uplift 7=-1080 (LC 9), 12=-728 (LC 9) Max Grav 7=4715 (LC 1), 12=3261 (LC 16)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-2089/563, 2-3=-1773/509,

3-4=-6374/1729, 4-6=-6326/1585,

6-7=-7862/1874, 1-12=-3340/788 11-12=-193/269, 9-11=-542/2649,

BOT CHORD 8-9=-1533/6745, 7-8=-1533/6745

WEBS 2-11=-234/859, 3-11=-2427/700,

3-9=-1623/5968, 4-9=-353/236, 6-9=-1756/445, 6-8=-242/1493,

1-11=-616/2834

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-9-0
 - Bottom chords connected as follows: 2x8 4 rows staggered at 0-9-0 oc.
- Web connected as follows: 2x4 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: , Joint 7 SP DSS
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 728 lb uplift at joint 12 and 1080 lb uplift at joint 7.
- 12) Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent at 24-1-13 from the left end to connect truss(es) to back face of bottom chord.
- 13) Use MiTek JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 24-9-13 from the left end to 34-9-13 to connect truss(es) to back face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (lb/ft)

Vert: 1-2=-60, 2-3=-60, 3-7=-60, 7-12=-20

Concentrated Loads (lb)

Vert: 8=-569 (B), 17=-2426 (B), 18=-569 (B), 19=-569 (B), 20=-569 (B), 21=-569 (B), 22=-575 (B)

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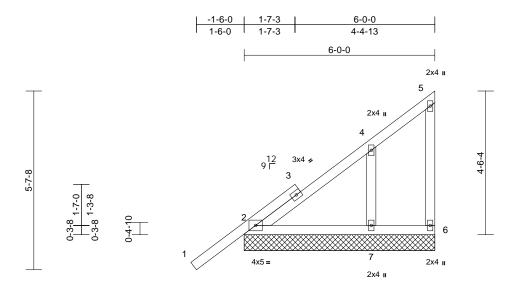


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|---------------------------|-----|-----|--------------------------|-----------|
| 1678-A | M1 | Monopitch Supported Gable | 1 | 1 | Job Reference (optional) | T35470367 |

Run: 8.82 S. Oct 10.2024 Print: 8.820 S. Oct 10.2024 MiTek Industries. Inc. Tue Nov 05.13:22:24 ID:oXWVGNcSXf78YkHtXgPwpgz08MX-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



| Sca | le | = | 1 | :3 |
|-----|----|---|---|----|
| | | | | |

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.29 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.09 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.05 | Horz(CT) | 0.00 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MP | | | | | | | Weight: 35 lb | FT = 20% |

6-0-0

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS 2x4 SP No.2 OTHERS

BRACING

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.

(size) REACTIONS 2=6-0-0, 6=6-0-0, 7=6-0-0, 8=6-0-0 Max Horiz 2=173 (LC 11), 8=173 (LC 11)

Max Uplift 2=-33 (LC 12), 6=-42 (LC 11), 7=-121 (LC 12), 8=-33 (LC 12)

2=252 (LC 1), 6=40 (LC 19), 7=303 Max Grav (LC 19), 8=252 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/57, 2-4=-309/218, 4-5=-109/105,

5-6=-83/98

BOT CHORD 2-7=-70/155, 6-7=-70/93

WEBS 4-7=-222/297

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 2, 42 lb uplift at joint 6, 121 lb uplift at joint 7 and 33 lb uplift at joint 2.

LOAD CASE(S) Standard



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November 6,2024



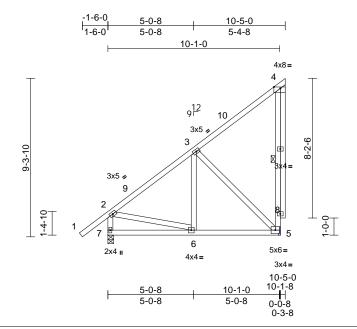
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 1678-A | M2 | Monopitch | 1 | 1 | Job Reference (optional) | T35470368 |

Run: 8.82 S. Oct 10 2024 Print: 8.820 S. Oct 10 2024 MiTek Industries. Inc. Tue Nov 05 13:22:24 ID:oPHUJZZd_dnzlkdgYnm4R7z08G7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:60.2

Plate Offsets (X, Y): [4:0-4-8,Edge]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.29 | Vert(LL) | -0.02 | 5-6 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.24 | Vert(CT) | -0.03 | 5-6 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.32 | Horz(CT) | -0.01 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 87 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.2 WEBS 2x4 SP No.2 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 7-7-12 oc

bracing

WFBS 1 Row at midpt 4-5

5= Mechanical, 7=0-4-0 REACTIONS (size)

Max Horiz 7=346 (LC 11)

Max Uplift 5=-163 (LC 12), 7=-61 (LC 12)

Max Grav 5=464 (LC 19), 7=506 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/62. 2-3=-422/98. 3-4=-248/199.

4-5=-209/247, 2-7=-464/256

BOT CHORD 6-7=-596/487, 5-6=-302/388

WEBS 3-6=-6/194, 3-5=-390/287, 2-6=-101/303

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-7-1 to 1-4-15, Zone1 1-4-15 to 10-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 7 SP No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 163 lb uplift at joint 5 and 61 lb uplift at joint 7.

LOAD CASE(S) Standard



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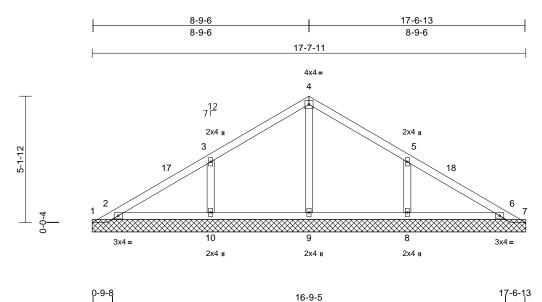
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 1678-A | PB1 | Piggyback | 16 | 1 | Job Reference (optional) | T35470369 |

Run: 8.82 S. Oct 10.2024 Print: 8.820 S. Oct 10.2024 MiTek Industries. Inc. Tue Nov 05.13:22:24 ID:5qPBUD2UGr5zDB3hO0etFBz090a-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:42.6

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|-----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.19 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.11 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.07 | Horiz(TL) | 0.00 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 67 lb | FT = 20% |

15-11-12

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

REACTIONS (size) 1=17-7-11, 2=17-7-11, 6=17-7-11, 7=17-7-11, 8=17-7-11, 9=17-7-11,

10=17-7-11, 11=17-7-11, 14=17-7-11

Max Horiz 1=123 (LC 9)

Max Uplift 1=-197 (LC 19), 2=-105 (LC 12), 6=-84 (LC 13), 7=-145 (LC 20),

8=-144 (LC 13), 10=-144 (LC 12), 11=-105 (LC 12), 14=-84 (LC 13)

Max Grav

1=98 (LC 12), 2=390 (LC 19), 6=352 (LC 1), 7=55 (LC 13), 8=364 (LC 20), 9=253 (LC 1), 10=364 (LC 19), 11=390 (LC 19), 14=352 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

1-2=-145/203, 2-3=-126/84, 3-4=-119/114, 4-5=-105/107, 5-6=-90/62, 6-7=-36/92

BOT CHORD 2-10=-64/76, 9-10=-30/76, 8-9=-30/76, 6-8=-68/76

4-9=-177/10, 3-10=-276/177, 5-8=-275/177

WEBS **NOTES**

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-3-11 to 3-3-11, Zone1 3-3-11 to 8-9-13, Zone2 8-9-13 to 12-9-13, Zone1 12-9-13 to 17-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 105 lb uplift at joint 2, 84 lb uplift at joint 6, 197 lb uplift at joint 1, 145 lb uplift at joint 7, 144 lb uplift at joint 10, 144 lb uplift at joint 8, 105 lb uplift at joint 2 and 84 lb uplift at joint 6.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



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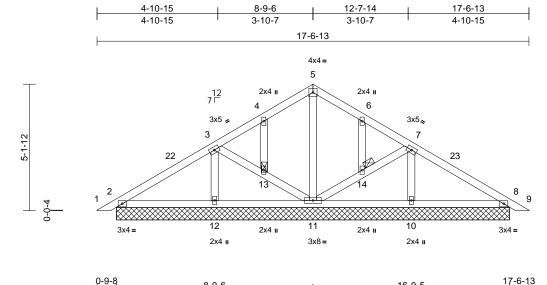


🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 1678-A | PB2 | Piggyback | 1 | 1 | Job Reference (optional) | T35470370 |

Run: 8.82 S. Oct 10.2024 Print: 8.820 S. Oct 10.2024 MiTek Industries. Inc. Tue Nov 05.13:22:25 ID:wRjbceiwsFZxstwll77J6Hz0910-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



8-9-6 16-9-5 7-11-14 7-11-14 Scale = 1:42.6

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.17 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.13 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.08 | Horz(CT) | 0.00 | 19 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 86 lb | FT = 20% |

LUMBER

2x4 SP No.2 TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS 2x4 SP No.2 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

JOINTS 1 Brace at Jt(s): 13, 14

REACTIONS (size) 2=15-11-12, 8=15-11-12,

10=15-11-12, 11=15-11-12, 12=15-11-12, 15=15-11-12,

19=15-11-12

Max Horiz 2=-123 (LC 10), 15=-123 (LC 10)

Max Uplift 2=-33 (LC 13), 8=-52 (LC 13),

10=-47 (LC 13), 11=-66 (LC 13), 12=-68 (LC 12), 15=-33 (LC 13),

19=-52 (LC 13)

2=195 (LC 25), 8=195 (LC 26), Max Grav

10=307 (LC 26), 11=337 (LC 1) 12=323 (LC 19), 15=195 (LC 25),

19=195 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/16, 2-3=-122/68, 3-4=-81/53,

4-5=-40/68, 5-6=-40/64, 6-7=-67/48, 7-8=-100/51, 8-9=0/16

BOT CHORD 2-12=-45/98, 11-12=-44/96, 10-11=0/61,

8-10=-3/61

WEBS 5-11=-180/32, 11-14=-96/108, 7-14=-79/96,

3-13=-78/80, 11-13=-90/95, 4-13=-34/30,

3-12=-215/94, 6-14=-34/30, 7-10=-202/74

NOTES

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-3-11 to 3-3-11, Zone1 3-3-11 to 8-9-13, Zone2 8-9-13 to 12-10-0, Zone1 12-10-0 to 17-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 2, 52 lb uplift at joint 8, 66 lb uplift at joint 11, 68 lb uplift at joint 12, 47 lb uplift at joint 10, 33 lb uplift at joint 2 and 52 lb uplift at joint 8.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



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November 6,2024

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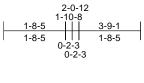


🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

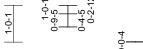


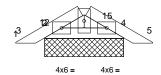
| Job | | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|----|-------|------------|-----|-----|--------------------------|-----------|
| 1678-A | Λ. | PB3 | Piggyback | 1 | 1 | Job Reference (optional) | T35470371 |

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| 0-9-8 | 2-11-8 | 3-9-1 | |
|-------|--------|-------|--|
| 0-9-8 | 2-2-0 | 0-9-8 | |

Scale = 1:18.1

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.06 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.05 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MP | | | | | | | Weight: 11 lb | FT = 20% |

LUMBER

2x4 SP No.2 TOP CHORD **BOT CHORD** 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-9-14 oc purlins.

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

bracing.

REACTIONS (size) 2=2-2-0, 4=2-2-0, 6=2-2-0, 9=2-2-0 Max Horiz 2=-16 (LC 10), 6=-16 (LC 10)

Max Uplift 4=-20 (LC 13), 9=-20 (LC 13) Max Grav 2=276 (LC 1), 4=102 (LC 20), 6=276 (LC 1), 9=102 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-3=0/16, 1-2=-47/107, 1-4=-86/32, 4-5=0/16

BOT CHORD 2-4=-8/77

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc. 6)
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 4 and 20 lb uplift at joint 4.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

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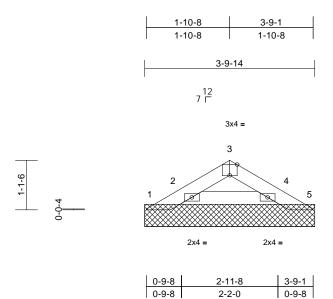
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 1678-A | PB4 | Piggyback | 16 | 1 | Job Reference (optional) | T35470372 |

Run: 8.82 S. Oct 10.2024 Print: 8.820 S. Oct 10.2024 MiTek Industries. Inc. Tue Nov 05.13:22:25 ID:vABA1qVFs0QLJG71F3KKwiz091H-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:16.1

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|-----------|------|-------|--------|-----|---------------|----------|
| | | - I | | | | | | (100) | | | _ | |
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.03 | Vert(LL) | n/a | - | n/a | | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.02 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horiz(TL) | 0.00 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MP | | | | | | | Weight: 10 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-9-14 oc purlins.

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

bracing.

REACTIONS (size)

1=3-9-14, 2=3-9-14, 4=3-9-14, 5=3-9-14, 6=3-9-14, 9=3-9-14

Max Horiz 1=-23 (LC 8)

Max Uplift 1=-13 (LC 10), 2=-24 (LC 12), 4=-20 (LC 13), 5=-6 (LC 3), 6=-24

(LC 12), 9=-20 (LC 13)

Max Grav 1=10 (LC 9), 2=144 (LC 19), 4=131

(LC 1), 5=2 (LC 26), 6=144 (LC

19), 9=131 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-24/39, 2-3=-57/52, 3-4=-58/52, 4-5=0/22

BOT CHORD 2-4=-3/49

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 2, 20 lb uplift at joint 4, 13 lb uplift at joint 1, 6 lb uplift at joint 5, 24 lb uplift at joint 2 and 20 lb uplift at joint 4.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



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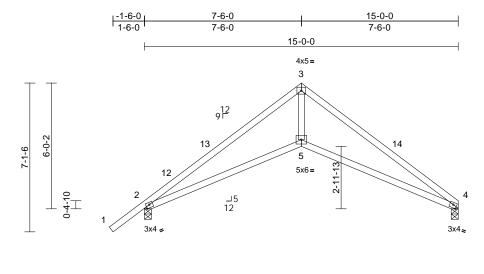
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 1678-A | S1 | Scissor | 1 | 1 | Job Reference (optional) | T35470373 |

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Nov 05 13:22:25 ID:GWV_UEe6h9_tqk2NSkYcD0z24dj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:50.2

7-6-0 14-8-0 0-4-0 7-2-0 7-2-0 Plate Offsets (X, Y): [2:0-2-0,Edge], [4:0-2-0,Edge]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.83 | Vert(LL) | 0.16 | 5-8 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.60 | Vert(CT) | -0.25 | 5-8 | >723 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.21 | Horz(CT) | 0.06 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 59 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins.

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

bracing.

REACTIONS 2=0-4-0, 4=0-4-0 (size)

Max Horiz 2=159 (LC 9)

Max Uplift 2=-129 (LC 12), 4=-89 (LC 13)

Max Grav 2=700 (LC 1), 4=595 (LC 1) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/57, 2-3=-1276/174, 3-4=-1273/195

BOT CHORD 2-5=-91/1035, 4-5=-86/1033

WEBS 3-5=-21/952

NOTES

FORCES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-7-1 to 1-4-15, Zone1 1-4-15 to 7-6-0, Zone2 7-6-0 to 11-8-15, Zone1 11-8-15 to 15-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Bearing at joint(s) 4, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 4 and 129 lb uplift at joint 2.

LOAD CASE(S) Standard



15-0-0

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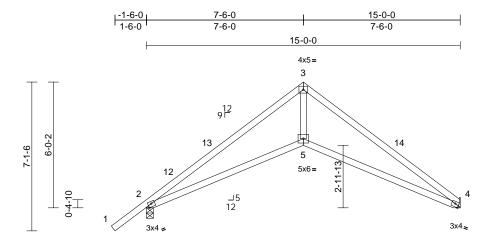
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 1678-A | S2 | Scissor | 1 | 1 | Job Reference (optional) | T35470374 |

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Nov 05 13:22:25 ID:lwdFh2di3HNso2RFe5SPu5z08MV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:50.2

Plate Offsets (X, Y): [2:0-2-0,Edge], [4:0-2-0,Edge]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.83 | Vert(LL) | 0.16 | 5-8 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.60 | Vert(CT) | -0.25 | 5-8 | >723 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.21 | Horz(CT) | 0.06 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 59 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins.

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

bracing.

REACTIONS 2=0-4-0, 4= Mechanical (size)

Max Horiz 2=159 (LC 11)

Max Uplift 2=-129 (LC 12), 4=-89 (LC 13) Max Grav 2=700 (LC 1), 4=595 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/57, 2-3=-1276/174, 3-4=-1273/195

BOT CHORD 2-5=-91/1035, 4-5=-86/1033

WEBS 3-5=-21/952

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-7-1 to 1-4-15, Zone1 1-4-15 to 7-6-0, Zone2 7-6-0 to 11-8-15, Zone1 11-8-15 to 15-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 4 and 129 lb uplift at joint 2.

LOAD CASE(S) Standard



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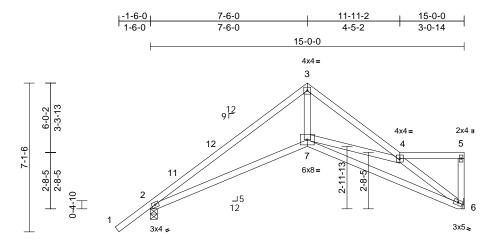
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|--------------|-----|-----|--------------------------|-----------|
| 1678-A | S3 | Roof Special | 1 | 1 | Job Reference (optional) | T35470375 |

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Scale = 1:50.2

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.80 | Vert(LL) | 0.15 | 7-10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.60 | Vert(CT) | -0.23 | 6-7 | >762 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.35 | Horz(CT) | 0.10 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 73 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 8-5-11 oc

bracing.

REACTIONS (size) 2=0-4-0, 6= Mechanical

Max Horiz 2=192 (LC 11)

Max Uplift 2=-128 (LC 12), 6=-98 (LC 13) Max Grav 2=695 (LC 1), 6=589 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/57, 2-3=-1232/335, 3-4=-1146/381,

4-5=-68/35, 5-6=-91/53

BOT CHORD 2-7=-359/1010. 6-7=-458/1180 WFBS 3-7=-238/952 4-7=-251/292 4-6=-1352/508

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-7-1 to 1-4-15, Zone1 1-4-15 to 7-6-0, Zone3 7-6-0 to 11-11-2, Zone1 11-11-2 to 14-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 98 lb uplift at joint 6 and 128 lb uplift at joint 2.

LOAD CASE(S) Standard



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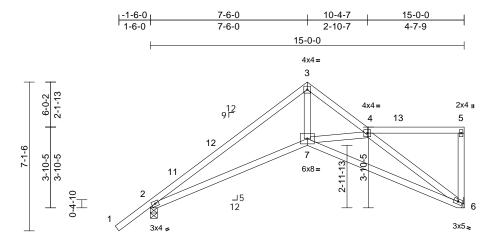




| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|--------------|-----|-----|--------------------------|-----------|
| 1678-A | S4 | Roof Special | 1 | 1 | Job Reference (optional) | T35470376 |

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Page: 1





Scale = 1:50.2

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.80 | Vert(LL) | 0.15 | 7-10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.61 | Vert(CT) | -0.24 | 6-7 | >747 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.73 | Horz(CT) | 0.10 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 75 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 8-0-15 oc

bracing.

REACTIONS (size) 2=0-4-0, 6= Mechanical

Max Horiz 2=207 (LC 11)

Max Uplift 2=-127 (LC 12), 6=-110 (LC 13) Max Grav 2=695 (LC 1), 6=589 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/57, 2-3=-1230/381, 3-4=-1123/437, 4-5=-85/66, 5-6=-142/83

2-7=-469/1022, 6-7=-494/1127

BOT CHORD WFBS 3-7=-311/981, 4-7=-189/168, 4-6=-1270/515

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-7-1 to 1-4-15, Zone1 1-4-15 to 7-6-0, Zone3 7-6-0 to 10-4-7, Zone1 10-4-7 to 14-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 6 and 127 lb uplift at joint 2.

LOAD CASE(S) Standard



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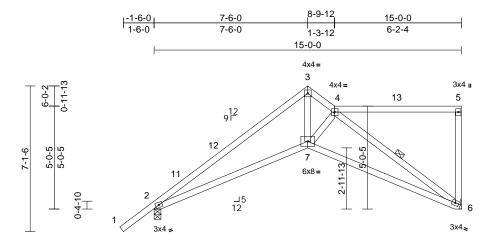




| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|--------------|-----|-----|--------------------------|-----------|
| 1678-A | S5 | Roof Special | 1 | 1 | Job Reference (optional) | T35470377 |

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Scale = 1:50.2

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.78 | Vert(LL) | 0.14 | 7-10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | ВС | 0.61 | Vert(CT) | -0.24 | 6-7 | >735 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.33 | Horz(CT) | 0.10 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 77 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 7-4-11 oc

bracing.

WEBS 1 Row at midpt 4-6

REACTIONS 2=0-4-0, 6= Mechanical (size)

Max Horiz 2=222 (LC 11)

Max Uplift 2=-126 (LC 12), 6=-128 (LC 13)

Max Grav 2=695 (LC 1), 6=589 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension TOP CHORD

1-2=0/57, 2-3=-1234/413, 3-4=-1083/469, 4-5=-104/91, 5-6=-182/101

BOT CHORD 2-7=-568/1112 6-7=-545/1108

WFBS 3-7=-346/1010, 4-7=-180/125, 4-6=-1175/552

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-7-1 to 1-4-15, Zone1 1-4-15 to 7-6-0, Zone3 7-6-0 to 8-9-12, Zone1 8-9-12 to 14-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 128 lb uplift at joint 6 and 126 lb uplift at joint 2.

LOAD CASE(S) Standard



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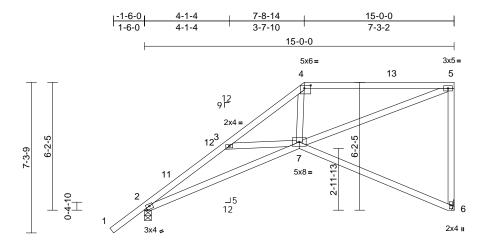
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 1678-A | S6 | Half Hip | 1 | 1 | Job Reference (optional) | T35470378 |

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Page: 1





Scale = 1:50.9

Plate Offsets (X, Y): [2:0-2-0,Edge], [4:0-3-12,0-1-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.78 | Vert(LL) | -0.12 | 6-7 | >999 | 240 | _ | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.49 | Vert(CT) | -0.25 | 6-7 | >709 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.53 | Horz(CT) | 0.09 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 81 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-4-5 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-5-11 oc

bracing.

REACTIONS 2=0-4-0, 6= Mechanical (size)

Max Horiz 2=243 (LC 11)

Max Uplift 2=-125 (LC 12), 6=-150 (LC 9) Max Grav 2=695 (LC 1), 6=589 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/57, 2-3=-1435/567, 3-4=-1119/421,

4-5=-825/391, 5-6=-525/288 **BOT CHORD** 2-7=-822/1407, 6-7=-107/134

WFBS 3-7=-317/241, 4-7=-78/386, 5-7=-489/946

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-7-1 to 1-4-15, Zone1 1-4-15 to 7-8-14, Zone2 7-8-14 to 11-11-13, Zone1 11-11-13 to 14-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 150 lb uplift at joint 6 and 125 lb uplift at joint 2.

LOAD CASE(S) Standard

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November 6,2024



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



| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 1678-A | S7 | Half Hip | 1 | 1 | Job Reference (optional) | T35470379 |

Run: 8.82 S. Oct 10.2024 Print: 8.820 S. Oct 10.2024 MiTek Industries. Inc. Tue Nov 05.13:22:26 ID:lwdFh2di3HNso2RFe5SPu5z08MV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

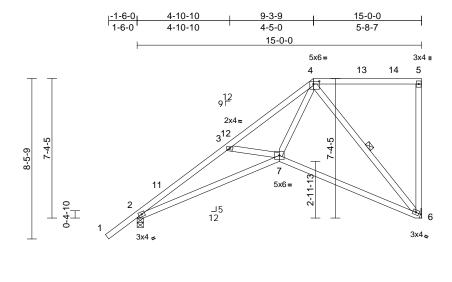
14-8-0

7-2-0

15-0-0

0-4-0

Page: 1



Scale = 1:55.5

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

| - | | | | | | | | | | | | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defI | L/d | PLATES | GRIP |
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.41 | Vert(LL) | -0.12 | 6-7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.55 | Vert(CT) | -0.26 | 6-7 | >698 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.29 | Horz(CT) | 0.09 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 87 lb | FT = 20% |

7-6-0

7-2-0

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-10-12 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-4-6 oc

bracing.

WEBS 4-6 1 Row at midpt

2=0-4-0, 6= Mechanical REACTIONS (size)

Max Horiz 2=287 (LC 11)

Max Uplift 2=-126 (LC 12), 6=-154 (LC 9)

Max Grav 2=695 (LC 1), 6=589 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/57, 2-3=-1420/533, 3-4=-1078/412, 4-5=-130/131, 5-6=-165/88

BOT CHORD 2-7=-851/1428, 6-7=-401/652

WEBS 3-7=-337/254, 4-7=-474/1065, 4-6=-775/458

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-7-1 to 1-4-15, Zone1 1-4-15 to 9-3-9, Zone2 9-3-9 to 13-6-8, Zone1 13-6-8 to 14-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 154 lb uplift at joint 6 and 126 lb uplift at joint 2.

LOAD CASE(S) Standard

0-4-0



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November 6,2024



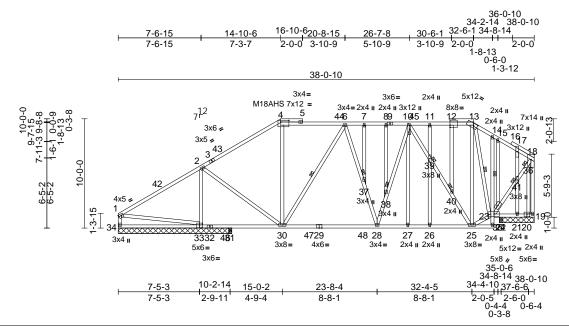
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|---------------------------------|-----|-----|--------------------------|-----------|
| 1678-A | SG1 | Piggyback Base Structural Gable | 1 | 1 | Job Reference (optional) | T35470380 |

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Nov 05 13:22:26 ID:1nSab9XTpOs9FLseQLtVM7z24ds-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:77.5

LUMBER

OTHERS

Plate Offsets (X, Y): [1:Edge,0-1-12], [4:0-9-0,0-1-12], [10:0-1-8,0-1-8], [12:Edge,0-2-8], [13:0-4-8,0-2-0], [18:Edge,0-3-8], [20:0-3-0,0-3-0], [33:0-3-0,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.72 | Vert(LL) | -0.23 | 28-30 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.82 | Vert(CT) | -0.37 | 28-30 | >794 | 180 | M18AHS | 186/179 |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.75 | Horz(CT) | 0.02 | 22 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 370 lb | FT = 20% |

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-5-3 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing. Except:

6-0-0 oc bracing: 15-35 WFBS 1 Row at midpt 6-30, 13-23

JOINTS 1 Brace at Jt(s): 36, 37, 38, 39, 40, 41

REACTIONS (size) 19=3-2-0, 20=3-2-0, 21=3-2-0,

22=0-3-8, 31=0-3-8, 33=10-4-10, 34=10-4-10

Max Horiz 34=292 (LC 9)

Max Uplift 19=-103 (LC 9), 20=-111 (LC 8),

21=-75 (LC 13), 22=-55 (LC 8), 33=-245 (LC 9), 34=-18 (LC 12)

Max Grav 19=497 (LC 2), 20=330 (LC 22), 21=58 (LC 20), 22=509 (LC 2), 31=49 (LC 3), 33=1776 (LC 2),

34=208 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-153/262, 2-4=-902/215, 4-6=-693/215, 6-7=-956/247, 7-8=-956/247, 8-10=-956/247,

10-11=-489/211, 11-12=-492/214, 12-13=-500/215, 13-14=-410/217, 14-15=-429/180, 15-17=-437/167

17-18=-372/140, 1-34=-90/79, 18-19=-532/76

BOT CHORD 31-34=-324/386, 30-31=-192/216, 28-30=-267/935, 27-28=-234/874,

26-27=-234/874, 25-26=-234/874, 24-25=-22/71, 15-35=-42/20, 22-23=-97/100,

21-22=-97/100, 19-21=-97/100, 23-24=-13/8, 14-23=-53/71, 20-36=-154/23

WFBS 2-33=-1470/307, 2-30=-138/974, 4-30=-25/201, 6-30=-509/218, 6-37=-10/120, 28-37=-17/129, 28-38=-6/298,

10-38=-32/305, 10-39=-721/189 39-40=-757/186, 25-40=-740/194, 13-25=-83/595, 23-25=-139/463, 1-33=-336/185. 13-23=-629/134. 7-37=-7/10.

8-38=-37/27, 10-27=-28/82, 11-39=-58/59, 26-39=-29/79, 12-40=-1/25, 17-41=-263/116, 21-41=-224/115, 23-35=-113/598,

35-41=-109/628, 36-41=-116/665, 18-36=-103/533

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-1-12 to 3-11-9, Zone1 3-11-9 to 14-10-6, Zone2 14-10-6 to 20-3-3, Zone1 20-3-3 to 32-6-1, Zone3 32-6-1 to 37-10-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.

- All plates are MT20 plates unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 11) All bearings are assumed to be SP No.2.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 245 lb uplift at joint 33, 111 lb uplift at joint 20, 103 lb uplift at joint 19, 18 lb uplift at joint 34, 75 lb uplift at joint 21 and 55 lb uplift at joint 22.

LOAD CASE(S) Standard



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November 6,2024



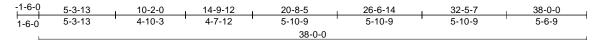


| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|----------------|-----|-----|--------------------------|-----------|
| 1678-A | T1 | Piggyback Base | 6 | 1 | Job Reference (optional) | T35470381 |

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Nov 05 13:22:27 ID:ZbvCOpWr25kleBHSteMGpvz24dt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

8-8-1

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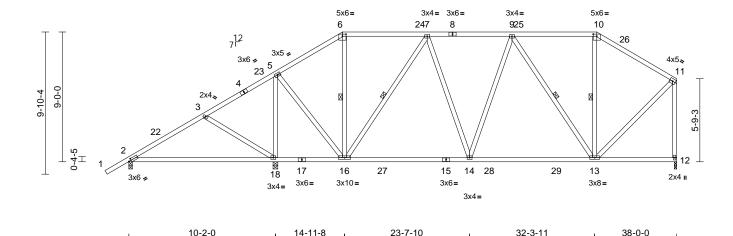


Plate Offsets (X, Y): [2:0-2-3,0-1-8], [6:0-3-0,0-1-12], [10:0-3-0,0-1-12]

10-2-0

| | | 1 | | | | | | | | | | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defI | L/d | PLATES | GRIP |
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.61 | Vert(LL) | -0.23 | 18-21 | >538 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.96 | Vert(CT) | -0.46 | 18-21 | >268 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.86 | Horz(CT) | 0.03 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 249 lb | FT = 20% |

8-8-1

4-9-8

LUMBER

Scale = 1:72.8

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-8-13 oc purlins, except end verticals.

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

bracing

WEBS 6-16, 7-16, 9-13, 10-13 1 Row at midnt 2=0-3-0, 12=0-2-0, 18=0-4-0 REACTIONS (size)

Max Horiz 2=302 (LC 11)

Max Uplift 2=-67 (LC 12), 12=-146 (LC 8),

18=-261 (LC 9)

Max Grav 2=424 (LC 19), 12=1198 (LC 2),

18=1840 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/48, 2-3=-268/77, 3-5=-164/272,

5-6=-615/188, 6-7=-479/187, 7-9=-971/233,

9-10=-644/217. 10-11=-809/205.

11-12=-1134/170

BOT CHORD 2-18=-145/265, 16-18=-219/162

14-16=-241/874, 13-14=-231/928,

12-13=-84/96

WFRS 6-16=-53/115, 7-16=-727/194, 7-14=0/323,

9-14=0/198, 9-13=-544/182, 10-13=-9/175, 11-13=-129/890, 3-18=-406/190

5-18=-1383/312, 5-16=-171/1009

NOTES

1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-14 to 2-2-15, Zone1 2-2-15 to 14-9-12, Zone2 14-9-12 to 20-2-9, Zone1 20-2-9 to 32-5-7, Zone3 32-5-7 to 37-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 2, 146 lb uplift at joint 12 and 261 lb uplift at joint 18.

LOAD CASE(S) Standard



5-8-5

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November 6,2024



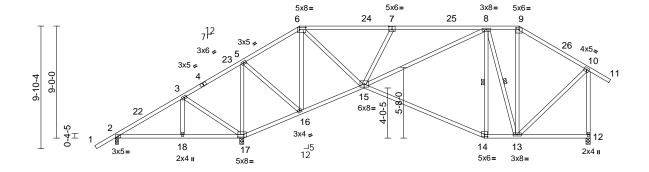
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

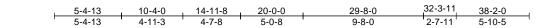


| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|----------------|-----|-----|--------------------------|-----------|
| 1678-A | T2 | Piggyback Base | 2 | 1 | Job Reference (optional) | T35470382 |

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Nov 05 13:22:27 ID:1nSab9XTpOs9FLseQLtVM7z24ds-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale = 1:84.7

Plate Offsets (X, Y): [6:0-6-0,0-2-4], [7:0-3-0,0-3-4], [9:0-3-0,0-1-12], [14:0-3-0,0-2-4], [17:0-5-12,0-2-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.67 | Vert(LL) | -0.34 | 14-15 | >966 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.95 | Vert(CT) | -0.71 | 14-15 | >468 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.91 | Horz(CT) | 0.06 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 256 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS

BRACING

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or 4-10-12 oc purlins, except end verticals.

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

bracing

WEBS 1 Row at midpt 8-14. 8-13 2=0-3-0, 12=0-4-0, 17=0-4-0 REACTIONS (size)

Max Horiz 2=309 (LC 11)

Max Uplift 2=-151 (LC 26), 12=-144 (LC 8),

17=-368 (LC 9)

Max Grav 2=177 (LC 20), 12=1053 (LC 26),

17=2104 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/48, 2-3=-325/563, 3-5=-299/890, 5-6=-193/142, 6-8=-1105/299, 8-9=-474/230,

9-10=-640/223, 10-11=0/52, 10-12=-997/213

BOT CHORD 2-18=-458/289, 17-18=-458/289,

> 16-17=-826/206, 15-16=-161/213 14-15=-183/693, 13-14=-154/608,

12-13=-75/93

WFRS

3-18=0/237, 3-17=-461/163, 5-17=-1467/350, 5-16=-247/1111, 6-16=-974/280,

6-15=-229/1054, 7-15=-557/269,

8-15=-257/564, 8-14=-108/132, 8-13=-531/168, 9-13=-55/188, 10-13=-97/631

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-14 to 2-2-15, Zone1 2-2-15 to 14-9-12, Zone2 14-9-12 to 20-2-9, Zone1 20-2-9 to 32-5-7, Zone2 32-5-7 to 38-0-4, Zone1 38-0-4 to 39-8-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 151 lb uplift at joint 2, 368 lb uplift at joint 17 and 144 lb uplift at joint 12.

LOAD CASE(S) Standard



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

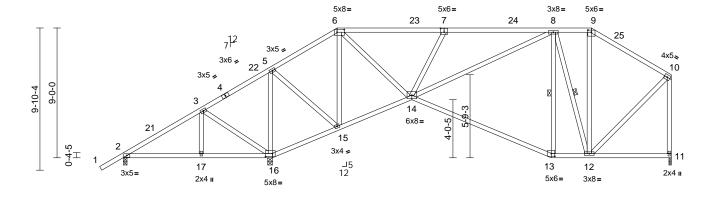


| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|----------------|-----|-----|--------------------------|-----------|
| 1678-A | T3 | Piggyback Base | 7 | 1 | Job Reference (optional) | T35470383 |

Run: 8.82 S. Oct 10.2024 Print: 8.820 S. Oct 10.2024 MiTek Industries. Inc. Tue Nov 05.13:22:27 ID:1nSab9XTpOs9FLseQLtVM7z24ds-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





| ı | 5-4-13 | 10-4-0 | 14-11-8 | 20-0-0 | 29-8-0 | 32-3-11 | 38-0-0 |
|---|--------|--------|---------|--------|--------|---------|--------|
| ı | 5-4-13 | 4-11-3 | 4-7-8 | 5-0-8 | 9-8-0 | 2-7-11 | 5-8-5 |

Scale = 1:72.8

Plate Offsets (X, Y): [6:0-6-0,0-2-4], [7:0-3-0,0-3-4], [9:0-3-0,0-1-12], [13:0-3-0,0-2-4], [16:0-5-12,0-2-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.67 | Vert(LL) | -0.34 | 13-14 | >961 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.95 | Vert(CT) | -0.71 | 13-14 | >466 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.91 | Horz(CT) | 0.06 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 253 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-10-12 oc purlins, except end verticals.

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

bracing.

WEBS 8-13. 8-12 1 Row at midnt 2=0-3-0, 11=0-2-0, 16=0-4-0 REACTIONS (size)

Max Horiz 2=302 (LC 11)

Max Uplift 2=-147 (LC 26), 11=-134 (LC 8),

16=-371 (LC 9)

2=178 (LC 20), 11=941 (LC 26), Max Grav

16=2096 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/48, 2-3=-333/556, 3-5=-307/883, 5-6=-197/134, 6-8=-1105/299, 8-9=-469/218,

9-10=-624/206, 10-11=-886/170

BOT CHORD 2-17=-452/282, 16-17=-452/282,

15-16=-819/196, 14-15=-155/195, 13-14=-188/689. 12-13=-159/603.

11-12=-81/97

WFRS 3-17=0/237, 3-16=-460/163, 5-16=-1462/355

5-15=-252/1106, 6-15=-970/285, 6-14=-233/1050, 7-14=-558/269, 8-14=-264/568, 8-13=-105/134, 8-12=-535/169, 9-12=-52/178,

10-12=-101/638

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-14 to 2-2-15, Zone1 2-2-15 to 14-9-12, Zone2 14-9-12 to 20-2-9, Zone1 20-2-9 to 32-5-7, Zone3 32-5-7 to 37-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 147 lb uplift at joint 2, 371 lb uplift at joint 16 and 134 lb uplift at joint 11.

LOAD CASE(S) Standard



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November 6,2024



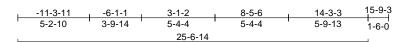
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

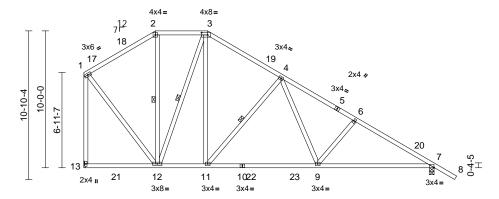


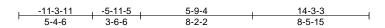
| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|----------------|-----|-----|--------------------------|-----------|
| 1678-A | T4 | Piggyback Base | 2 | 1 | Job Reference (optional) | T35470384 |

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Nov 05 13:22:27 ID:zAaK0rYjL06tVf01YmwzRYz24dq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1







Scale = 1:76.8

Plate Offsets (X, Y): [3:0-5-8,0-2-0], [7:Edge,0-0-4]

| - | | | | 1 | | | | | | | | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defI | L/d | PLATES | GRIP |
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.90 | Vert(LL) | -0.17 | 9-11 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.83 | Vert(CT) | -0.28 | 9-11 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.31 | Horz(CT) | 0.03 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 177 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-0-10 oc purlins, except end verticals.

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

bracing.

WEBS 1 Row at midnt 2-12, 3-12, 4-11 7=0-4-0, 13= Mechanical REACTIONS (size)

Max Horiz 13=-342 (LC 10)

Max Uplift 7=-215 (LC 13), 13=-146 (LC 13) Max Grav 7=1256 (LC 20), 13=1132 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-626/218, 2-3=-496/224, 3-4=-859/236, 4-6=-1630/285, 6-7=-1802/288, 7-8=0/48,

1-13=-1019/213

BOT CHORD 12-13=-202/291, 11-12=0/742, 9-11=-3/1079,

7-9=-139/1503

2-12=-92/121, 3-12=-652/136,

3-11=-133/797, 4-11=-731/261, 4-9=-75/663,

6-9=-335/196, 1-12=-155/804

NOTES

WEBS

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 11-5-7 to 14-5-7, Zone1 14-5-7 to 16-6-5, Zone3 16-6-5 to 20-4-4, Zone2 20-4-4 to 24-7-2, Zone1 24-7-2 to 38-5-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: , Joint 7 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 146 lb uplift at joint 13 and 215 lb uplift at joint 7.

LOAD CASE(S) Standard



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November 6,2024



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Ply Job Truss Truss Type Qty Bootle Residence T35470385 1678-A T5 Piggyback Base 4 1 Job Reference (optional)

35-2-10

19 Lumber, Inc., Old Town, FL - 32680,

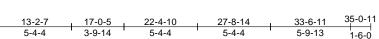
2-5-15

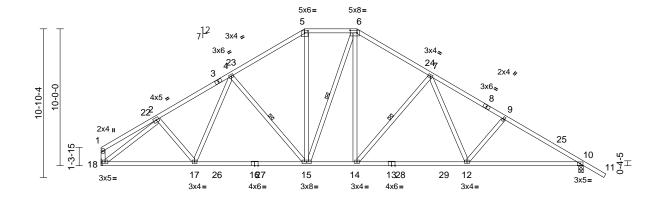
4-1-14

7-10-3

5-4-4

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5-2-1 13-4-3 16-10-9 25-0-12 33-6-11 6-10-0 8-2-2 3-6-6 8-2-2 8-5-15

Scale = 1:76.8

Plate Offsets (X, Y): [5:0-3-0,0-1-12], [6:0-6-0,0-2-4]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defI | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.42 | Vert(LL) | -0.23 | 12-14 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.97 | Vert(CT) | -0.40 | 12-14 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.91 | Horz(CT) | 0.10 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 223 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-3-2 oc purlins, except end verticals.

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

bracing, Except:

2-2-0 oc bracing: 10-12.

WFBS 1 Row at midpt 4-15, 6-15, 7-14

REACTIONS (size) 10=0-4-0, 18= Mechanical Max Horiz 18=-269 (LC 10)

Max Uplift 10=-260 (LC 13), 18=-206 (LC 12)

Max Grav 10=1671 (LC 20), 18=1563 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-194/69, 2-4=-2046/309, 4-5=-1674/323,

5-6=-1386/312, 6-7=-1702/323,

7-9=-2442/372, 9-10=-2613/375, 10-11=0/48,

1-18=-182/66

BOT CHORD 17-18=-298/1784, 15-17=-208/1758,

14-15=-31/1436, 12-14=-114/1802,

10-12=-214/2201

WEBS 2-17=-22/223, 4-17=-17/254, 4-15=-499/231,

5-15=-93/634, 6-15=-210/129,

6-14=-143/762, 7-14=-732/261, 7-12=-73/657, 9-12=-328/195,

2-18=-1977/253

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 1-9-11 to 5-3-14, Zone1 5-3-14 to 16-6-5, Zone3 16-6-5 to 20-4-4, Zone2 20-4-4 to 25-3-15, Zone1 25-3-15 to 38-5-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: , Joint 10 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 206 lb uplift at joint 18 and 260 lb uplift at joint 10.

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 6,2024

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

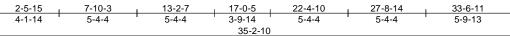


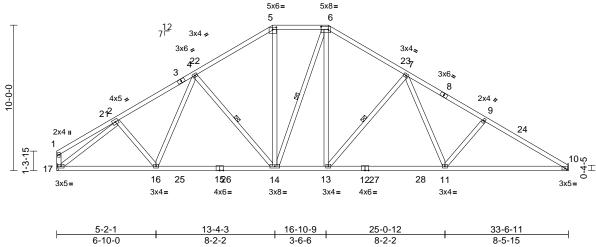
| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|----------------|-----|-----|--------------------------|-----------|
| 1678-A | T6 | Piggyback Base | 3 | 1 | Job Reference (optional) | T35470386 |

19 Lumber, Inc., Old Town, FL - 32680

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Scale = 1:73.4

Plate Offsets (X, Y): [5:0-3-0,0-1-12], [6:0-6-0,0-2-4]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.48 | Vert(LL) | -0.23 | 11-13 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.99 | Vert(CT) | -0.40 | 11-13 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.91 | Horz(CT) | 0.10 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 221 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-1-3 oc purlins, except end verticals.

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

bracing.

WEBS 1 Row at midpt 4-14, 6-14, 7-13 10= Mechanical, 17= Mechanical REACTIONS (size)

Max Horiz 17=-254 (LC 10)

Max Uplift 10=-222 (LC 13), 17=-206 (LC 12) Max Grav 10=1580 (LC 20), 17=1564 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=-195/69, 2-4=-2048/309, 4-5=-1677/324,

5-6=-1389/316, 6-7=-1705/329, 7-9=-2459/381, 9-10=-2631/386,

1-17=-182/66

16-17=-314/1774, 14-16=-223/1748, 13-14=-47/1427, 11-13=-138/1809,

10-11=-256/2226

WFBS 2-16=-22/224, 4-16=-17/253, 4-14=-499/231,

5-14=-94/636, 6-14=-212/129, 6-13=-145/764, 7-13=-738/264,

7-11=-82/672, 9-11=-338/201,

2-17=-1979/254

NOTES

BOT CHORD

Unbalanced roof live loads have been considered for

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 1-9-11 to 5-3-14, Zone1 5-3-14 to 16-6-5, Zone3 16-6-5 to 20-4-4, Zone2 20-4-4 to 25-3-15, Zone1 25-3-15 to 36-10-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 206 lb uplift at joint 17 and 222 lb uplift at joint 10.

LOAD CASE(S) Standard



MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 6,2024

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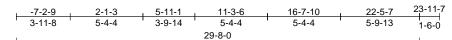


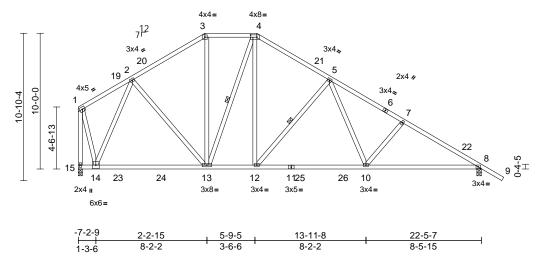
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|----------------|-----|-----|--------------------------|-----------|
| 1678-A | Т8 | Piggyback Base | 1 | 1 | Job Reference (optional) | T35470387 |

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Scale = 1:76.8

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defI | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.37 | Vert(LL) | -0.19 | 10-12 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.89 | Vert(CT) | -0.33 | 10-12 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.79 | Horz(CT) | 0.05 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 203 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-8-0 oc purlins, except end verticals.

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

bracing.

WEBS 1 Row at midnt 4-13. 5-12 8=0-4-0, 15=0-3-8 REACTIONS (size) Max Horiz 15=-311 (LC 10)

Max Uplift 8=-237 (LC 13), 15=-147 (LC 12)

Max Grav 8=1435 (LC 20), 15=1312 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-455/140, 2-3=-1085/242, 3-4=-877/246,

4-5=-1218/259, 5-7=-1981/328,

7-8=-2152/331, 8-9=0/48, 1-15=-1478/119

BOT CHORD 14-15=-217/275, 13-14=-115/808, 12-13=0/1025, 10-12=-31/1385,

8-10=-177/1804

WEBS 2-14=-900/217, 2-13=-84/364, 3-13=-63/343,

4-13=-425/122, 4-12=-143/762, 5-12=-733/261, 5-10=-74/663

7-10=-332/196, 1-14=-75/1258

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 7-4-5 to 10-4-5, Zone1 10-4-5 to 16-6-5, Zone3 16-6-5 to 20-4-4, Zone2 20-4-4 to 24-7-2, Zone1 24-7-2 to 38-5-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 147 lb uplift at joint 15 and 237 lb uplift at joint 8.

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

November 6,2024



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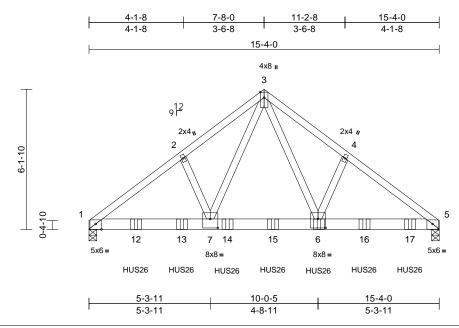


Qty Job Truss Truss Type Ply Bootle Residence T35470388 1678-A T9 2 Common Girder Job Reference (optional)

19 Lumber, Inc., Old Town, FL - 32680

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Page: 1



Scale = 1:46

Plate Offsets (X, Y): [1:0-3-0,Edge], [5:0-3-0,Edge], [6:0-4-0,0-4-12], [7:0-4-0,0-4-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.68 | Vert(LL) | -0.10 | 6-11 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.62 | Vert(CT) | -0.18 | 6-11 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.55 | Horz(CT) | 0.04 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 182 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP 2400F 2.0E 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-8-2 oc purlins.

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

bracing.

REACTIONS 1=0-4-0, 5=0-4-0 (size)

Max Horiz 1=-142 (LC 4)

Max Uplift 1=-811 (LC 8), 5=-888 (LC 9)

Max Grav 1=5688 (LC 15), 5=6237 (LC 16)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-7879/1101, 2-3=-7621/1167, 3-4=-7693/1176, 4-5=-8023/1110

BOT CHORD 1-7=-912/6217, 6-7=-559/4275,

5-6=-847/6200

WFBS 3-6=-770/4959, 4-6=-304/177, 3-7=-751/4812, 2-7=-283/174

- NOTES 1) 2-ply truss to be connected together with 10d
 - (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-9-0
 - Bottom chords connected as follows: 2x6 2 rows staggered at 0-6-0 oc
 - Web connected as follows: 2x4 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP 2400F 2.0E
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 811 lb uplift at joint 1 and 888 lb uplift at joint 5.
- 10) Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 14-0-12 to connect truss(es) to front face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (lb/ft)

Vert: 1-3=-60, 3-5=-60, 1-5=-20

Concentrated Loads (lb)

Vert: 6=-1381 (F), 12=-1383 (F), 13=-1383 (F), 14=-1383 (F), 15=-1381 (F), 16=-1381 (F), 17=-1381



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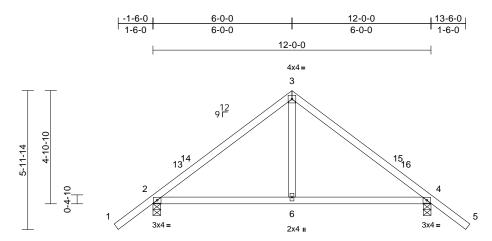
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 1678-A | T10 | Common | 3 | 1 | Job Reference (optional) | T35470389 |

Run: 8.82 S. Oct 10.2024 Print: 8.820 S. Oct 10.2024 MiTek Industries. Inc. Tue Nov 05.13:22:28 ID:1nSab9XTpOs9FLseQLtVM7z24ds-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



6-0-0 12-0-0 6-0-0 6-0-0

Scale = 1:45.4

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.40 | Vert(LL) | 0.04 | 6-9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.38 | Vert(CT) | -0.07 | 6-9 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.06 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 53 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 2=0-4-0, 4=0-4-0

Max Horiz 2=-141 (LC 10)

Max Uplift 2=-111 (LC 12), 4=-111 (LC 13) Max Grav 2=575 (LC 1), 4=575 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/57, 2-3=-538/159, 3-4=-538/159,

4-5=0/57

BOT CHORD 2-6=-13/369, 4-6=0/369

WFBS 3-6=0/282

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-7-1 to 1-4-15, Zone1 1-4-15 to 6-0-0, Zone2 6-0-0 to 10-2-15, Zone1 10-2-15 to 13-7-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 2 and 111 lb uplift at joint 4.

LOAD CASE(S) Standard



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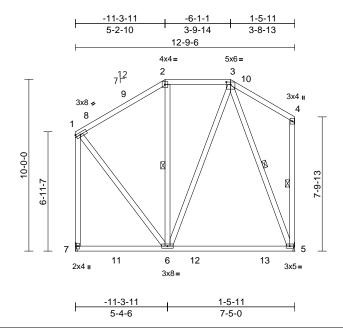
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|----------------|-----|-----|--------------------------|-----------|
| 1678-A | T11 | Piggyback Base | 3 | 1 | Job Reference (optional) | T35470390 |

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Nov 05 13:22:28 ID:lwdFh2di3HNso2RFe5SPu5z08MV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:61.4

Plate Offsets (X, Y): [3:0-3-0,0-1-12]

| - | | I | | | | | | | | | | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defI | L/d | PLATES | GRIP |
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.48 | Vert(LL) | -0.15 | 5-6 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.60 | Vert(CT) | -0.23 | 5-6 | >665 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.25 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 117 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS

BRACING

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.

WEBS 1 Row at midpt 2-6, 4-5, 3-5 5= Mechanical, 7= Mechanical REACTIONS (size)

Max Horiz 7=328 (LC 9)

Max Uplift 5=-115 (LC 13), 7=-103 (LC 12) Max Grav 5=604 (LC 19), 7=607 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-305/145, 2-3=-220/180, 3-4=-212/244,

4-5=-193/211, 1-7=-527/306 BOT CHORD 6-7=-324/332, 5-6=-195/265

WEBS 2-6=-191/118, 1-6=-186/385, 3-6=-132/288,

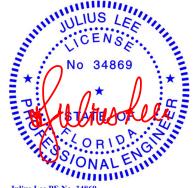
3-5=-475/320

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 11-5-7 to 14-5-7, Zone1 14-5-7 to 16-6-5, Zone3 16-6-5 to 23-11-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 7 and 115 lb uplift at joint 5.

LOAD CASE(S) Standard



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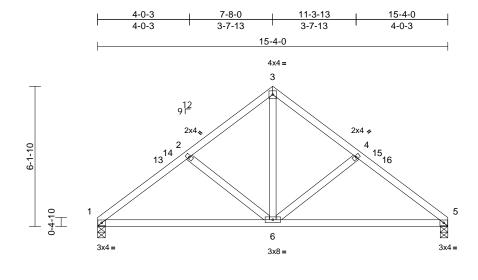
| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 1678-A | T13 | Common | 1 | 1 | Job Reference (optional) | T35470391 |

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15-4-0

7-8-0

Page: 1



| Sca | le | = | 1 | :46 |
|-----|----|---|---|-----|
| | | | | |

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.25 | Vert(LL) | -0.06 | 6-12 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.53 | Vert(CT) | -0.12 | 6-12 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.11 | Horz(CT) | 0.01 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 73 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=0-4-0, 5=0-4-0

Max Horiz 1=-142 (LC 8)

Max Uplift 1=-92 (LC 12), 5=-92 (LC 13) Max Grav 1=613 (LC 1), 5=613 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-789/220, 2-3=-617/204, 3-4=-617/204,

4-5=-789/220 **BOT CHORD**

1-6=-143/634, 5-6=-108/609

WFBS 3-6=-126/467, 4-6=-254/170, 2-6=-253/169

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 7-8-0, Zone2 7-8-0 to 11-10-15, Zone1 11-10-15 to 15-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.

7-8-0 7-8-0

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 1 and 92 lb uplift at joint 5.

LOAD CASE(S) Standard



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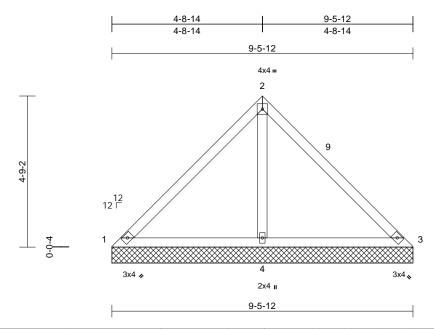






| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 1678-A | V1 | Valley | 2 | 1 | Job Reference (optional) | T35470392 |

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Scale = 1:27.7

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|-----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.24 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.30 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.17 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 39 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

9-5-12 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=9-5-12, 3=9-5-12, 4=9-5-12

1=-113 (LC 8) Max Horiz

Max Uplift 1=-24 (LC 26), 3=-24 (LC 25), 4=-195 (LC 12)

1=71 (LC 25), 3=71 (LC 26), 4=692 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-155/284, 2-3=-163/278 **BOT CHORD** 1-4=-210/256, 3-4=-210/256

2-4=-523/347 WEBS

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone1 0-0-4 to 4-9-2, Zone2 4-9-2 to 8-9-13, Zone1 8-9-13 to 9-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 1, 24 lb uplift at joint 3 and 195 lb uplift at joint 4.

LOAD CASE(S) Standard



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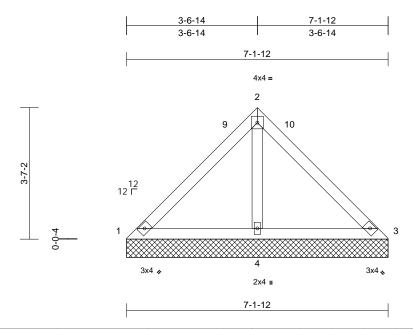
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 1678-A | V2 | Valley | 2 | 1 | Job Reference (optional) | T35470393 |

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Page: 1



Scale = 1:23.2

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|-----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.18 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.24 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.07 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MP | | | | | | | Weight: 29 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

7-1-12 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=7-1-12, 3=7-1-12, 4=7-1-12

1=-84 (LC 8) Max Horiz

Max Uplift 1=-6 (LC 26), 3=-6 (LC 25), 4=-135

(LC 12)

1=66 (LC 25), 3=66 (LC 26), 4=490 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-144/183, 2-3=-157/175 **BOT CHORD**

1-4=-159/252, 3-4=-159/252

2-4=-344/336 WEBS

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-4 to 3-0-4, Zone1 3-0-4 to 3-7-2, Zone3 3-7-2 to 7-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 1, 6 lb uplift at joint 3 and 135 lb uplift at joint 4.

LOAD CASE(S) Standard



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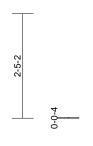


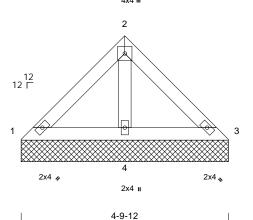
| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 1678-A | V3 | Valley | 2 | 1 | Job Reference (optional) | T35470394 |

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4-9-12





Scale = 1:18.8

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|-----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.07 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.11 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.02 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MP | | | | | | | Weight: 19 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-9-12 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=4-9-12, 3=4-9-12, 4=4-9-12

Max Horiz 1=55 (LC 9)

Max Uplift 1=-1 (LC 13), 3=-4 (LC 13), 4=-65

(LC 12)

1=61 (LC 25), 3=61 (LC 26), 4=284 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-51/89, 2-3=-51/81 **BOT CHORD** 1-4=-80/140, 3-4=-80/140

2-4=-175/128 WEBS

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone1 0-0-4 to 2-5-2, Zone3 2-5-2 to 4-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 1, 4 lb uplift at joint 3 and 65 lb uplift at joint 4.

LOAD CASE(S) Standard



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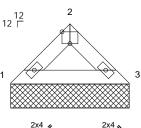
| Job | Truss | Truss Type | Qty | Ply | Bootle Residence | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 1678-A | V4 | Valley | 2 | 1 | Job Reference (optional) | T35470395 |

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Nov 05 13:22:29 ID:2Tm1TiYViSf71e2HTDtHeSySoy_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

> 1-2-14 1-2-14 1-2-14

2-5-12

3x4 =



2-5-12

Scale = 1:15.8

Plate Offsets (X, Y): [2:0-2-0,Edge]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|-----------|------|-------|--------|-----|--------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.04 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.04 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MP | | | | | | | Weight: 8 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-5-12 oc purlins.

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

bracing.

REACTIONS (size) 1=2-5-12, 3=2-5-12

Max Horiz 1=-26 (LC 8)

Max Uplift 1=-14 (LC 12), 3=-14 (LC 13) Max Grav 1=99 (LC 1), 3=99 (LC 1) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-116/64, 2-3=-116/61

BOT CHORD 1-3=-26/86

NOTES

FORCES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone1 0-0-4 to 1-3-2, Zone3 1-3-2 to 2-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 1 and 14 lb uplift at joint 3.

LOAD CASE(S) Standard



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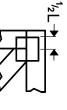


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

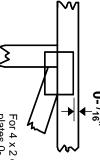


Symbols

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

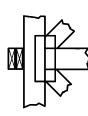
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

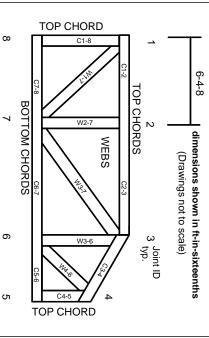
Industry Standards:

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

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

ANSI/TPI1: DSB-22:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- 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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- 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.

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