

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

Re: 2503401-A Discover Pet Spa

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Lumber Specialties-Dyersville, IA.

Pages or sheets covered by this seal: I73987911 thru I73988021

My license renewal date for the state of Missouri is December 31, 2026.

Missouri COA: Engineering 001193

REVIEWED

JAB-Porter, Berendzen & Associates 07-31-2025





June 6,2025

Lu Jie

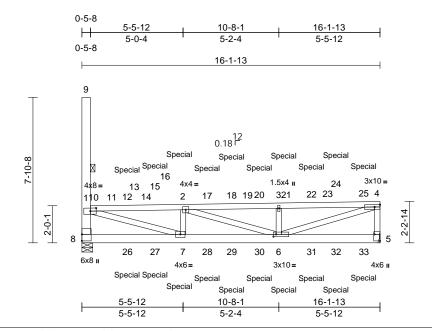
,Engineer

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

| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|---------------------|-----|-----|--------------------------|-----------|
| 2503401-A | CJ01 | Diagonal Hip Girder | 1 | 2 | Job Reference (optional) | 173987911 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:13:57 ID:7kEit0Kwa6x7OQ7br268xyzEgaH-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:62.4

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.65 | Vert(LL) | 0.22 | 6-7 | >861 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.29 | Vert(CT) | -0.24 | 6-7 | >774 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.66 | Horz(CT) | 0.02 | 5 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 215 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1 6F BOT CHORD 2x6 SP 2400F 2.0E

WEBS 2x4 SP No.2 *Except* 9-8:2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-4-13 oc purlins, except end verticals.

Except:

6-0-0 oc bracing: 1-8 10-0-0 oc bracing: 1-9

BOT CHORD Rigid ceiling directly applied or 8-11-13 oc

bracing.

WEBS 1 Row at midpt

REACTIONS 5= Mechanical, 8=0-7-0 (size)

Max Horiz 8=375 (LC 63)

Max Uplift 5=-1855 (LC 10), 8=-2472 (LC 9)

Max Grav 5=3572 (LC 18), 8=3255 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-7708/6105, 2-3=-7234/4696,

3-4=-7232/4703, 4-5=-2595/1698,

1-8=-2584/2030, 1-9=0/0

BOT CHORD 7-8=-1774/2446, 6-7=-6168/7714,

5-6=-186/298

2-7=-1090/217, 2-6=-1651/1488,

3-6=-675/348, 4-6=-4838/7351,

1-7=-5808/7283

NOTES

WEBS

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 oc, 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows

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

- 2) 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 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Provide adequate drainage to prevent water ponding.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1855 lb uplift at joint 5 and 2472 lb uplift at joint 8.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 251 lb down and 184 lb up at 2-5-12, 178 lb down and 113 lb up at 3-11-13, 165 lb down and 103 lb up at 5-3-11. 166 lb down and 101 lb up at 6-9-12, 172 lb down and 105 lb up at 8-1-10, 139 lb down and 74 lb up at 9-7-11, 142 lb down and 78 lb up at 10-11-9, 74 lb down and 83 lb up at 12-5-10, and 78 lb down and 83 lb up at 13-9-8, and 103 lb down and 77 lb up at 15-3-9 on top chord, and 914 lb down and 911 lb up at 2-5-12, 558 lb down and 543 lb up at 3-11-13, 431 lb down and 404 lb up at 5-3-11, 354 lb down and 309 lb up at 6-9-12, 316 lb down and 259 lb up at 8-1-10, 451 lb down and 273 lb up at 9-7-11, 442 lb down and 250 lb up at 10-11-9, 480 lb down and 222 lb up at 12-5-10, and 461 lb down and 207 lb up at 13-9-8, and 535 lb down and 190 lb up at 15-3-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)



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Continued on page 2

WARNING - Ve

neters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job Truss Truss Type Qty Ply Discover Pet Spa 173987911 2503401-A CJ01 Diagonal Hip Girder 1 2 Job Reference (optional)

Lumber Specialties, Dyersville, IA - 52040,

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:13:57 ID:7kEit0Kwa6x7OQ7br268xyzEgaH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Vert: 5-8=-20

Concentrated Loads (lb)

Vert: 2=-83 (B), 3=-39 (B), 6=-342 (B), 4=-2, 7=-62 (B), 10=0, 11=-28, 12=-29 (B=-14), 15=-51 (F), 17=-146 (F), 18=-155 (B), 20=-52 (F), 21=-3, 22=-74 (F), 24=-56 (B), 25=-101 (F), 26=-15 (B), 27=-35 (F), 28=-96 (F), 29=-112 (B), 30=-331 (F), 31=-414 (F), 32=-404 (B), 33=-507 (F)

Trapezoidal Loads (lb/ft)

Vert: 1=-61-to-10=-79, 10=-103-to-11=-127, 11=-69to-12=-61, 12=-125-to-13=-113, 13=-113-to-14=-93. 14=-93-to-15=-78, 15=-100-to-16=-90, 16=-90to-2=-73, 2=-95-to-17=-73, 17=-91-to-18=-73, 18=-89-to-19=-78, 19=-77-to-20=-70, 20=-82to-3=-72, 3=-72-to-21=-68, 21=-78-to-22=-67, 22=-74-to-23=-68, 23=-68-to-24=-66, 24=-70to-25=-63, 25=-62-to-4=-61



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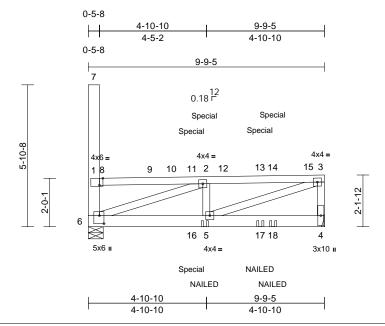
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|---------------------|-----|-----|--------------------------|-----------|
| 2503401-A | CJ58 | Diagonal Hip Girder | 1 | 1 | Job Reference (optional) | 173987912 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:13:58 ID:4JclsY4dlUe8hYfOOLV7klzEgsg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:47.7

Plate Offsets (X, Y): [1:0-1-12,Edge], [6:0-4-0,0-2-4]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.85 | Vert(LL) | 0.06 | 4-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.18 | Vert(CT) | -0.07 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.84 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 67 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 2400F 2 0F BOT CHORD 2x6 SP 2400F 2.0E

WEBS 2x4 SP No.2 *Except* 7-6:2x6 SP 2400F 2.0E

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

4-4-9 oc purlins, except end verticals. Rigid ceiling directly applied or 7-10-11 oc

bracing

REACTIONS 4= Mechanical, 6=0-7-6 (size)

Max Horiz 6=-247 (LC 11)

Max Uplift 4=-684 (LC 10), 6=-537 (LC 9)

Max Grav 4=1270 (LC 18), 6=1016 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-1085/751, 2-3=-2146/1711, TOP CHORD

1-6=-407/178, 1-7=0/0

BOT CHORD 5-6=-1713/2141, 4-5=0/0 WEBS

3-4=-1010/768, 2-5=-363/555 3-5=-1828/2285, 2-6=-2139/1900

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 684 lb uplift at joint 4 and 537 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 169 lb down and 83 lb up at 4-3-9, 169 lb down and 84 lb up at 4-9-14, and 135 lb down and 92 lb up at 7-1-8, and 167 lb down and 95 lb up at 7-7-13 on top chord, and 292 lb down and 276 lb up at 4-3-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-8=-61, 4-6=-20

Concentrated Loads (lb)

Vert: 5=-57 (B), 2=-80 (B), 11=-61 (F), 13=-135 (F), 14=-167 (B), 16=-42 (F), 17=-95 (F), 18=-112 (B)

Trapezoidal Loads (lb/ft)

Vert: 8=-147-to-9=-105, 9=-105-to-10=-86, 10=-86to-11=-68, 11=-92-to-2=-80, 2=-105-to-12=-92, 12=-92-to-13=-66, 13=-86-to-14=-78, 14=-75to-15=-104. 15=-84-to-3=-71



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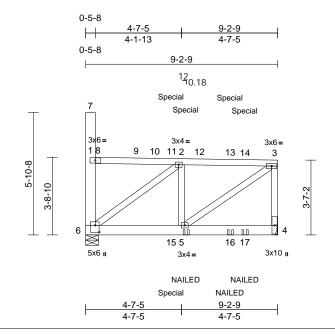
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|---------------------|-----|-----|--------------------------|-----------|
| 2503401-A | CJ100 | Roof Special Girder | 1 | 1 | Job Reference (optional) | 173987913 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:13:58 ID:s6dC55OJtAobBN3BM5S?F0zEgsH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:55.3

Plate Offsets (X, Y): [6:0-4-0,0-2-4]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.91 | Vert(LL) | 0.02 | 4-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.11 | Vert(CT) | -0.03 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.56 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 71 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1 6F BOT CHORD 2x6 SP 2400F 2.0E

WEBS 2x4 SP No.2 *Except* 7-6:2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-11-7 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing.

REACTIONS 4= Mechanical, 6=0-7-6 (size)

Max Horiz 6=-239 (LC 9)

Max Uplift 4=-614 (LC 10), 6=-469 (LC 9)

Max Grav 4=1214 (LC 18), 6=920 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-420/306, 2-3=-972/753, 3-4=-953/715,

1-6=-387/172, 1-7=0/0 **BOT CHORD** 5-6=-835/988, 4-5=-71/79

WEBS 2-5=-272/550, 3-5=-943/1147,

2-6=-1177/1033

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 614 lb uplift at joint 4 and 469 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 2-12d
 - (0.148"x3.25") toe-nails per NDS guidlines.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 159 lb down and 72 lb up at 4-1-7, 163 lb down and 76 lb up at 4-9-14, and 116 lb down and 88 lb up at 6-11-6, and 171 lb down and 92 lb up at 7-7-13 on top chord, and 282 lb down and 247 lb up at 4-1-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-8=-61, 4-6=-20

Concentrated Loads (lb)

Vert: 5=-53 (F), 3=-2, 2=-82 (F), 11=-52 (B), 13=-122 (B=-116), 14=-171 (F), 15=-33 (B), 16=-82 (B),

17=-108 (F)

Trapezoidal Loads (lb/ft)

Vert: 8=-139-to-9=-104, 9=-104-to-10=-87, 10=-87to-11=-70, 11=-93-to-2=-84, 2=-107-to-12=-93, 12=-93-to-13=-68, 13=-67-to-14=-61, 14=-72to-3=-102



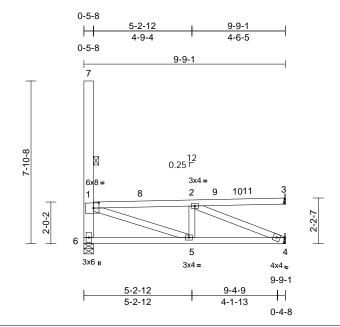
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| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | J02 | Jack-Open | 1 | 1 | Job Reference (optional) | 173987914 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:13:59 ID:zj5Fm?V8hDSKKSEd7uwGSczEgdx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:55.8

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.76 | Vert(LL) | -0.03 | 5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.25 | Vert(CT) | -0.04 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.65 | Horz(CT) | 0.02 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 62 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1 6F BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 7-6:2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-7-5 oc purlins, except end verticals.

Except:

6-0-0 oc bracing: 1-6 7-5-0 oc bracing: 1-7

BOT CHORD Rigid ceiling directly applied or 6-9-14 oc

bracing.

WEBS 1 Row at midpt

REACTIONS (size) 3= Mechanical, 4= Mechanical,

6=0-5-8

Max Horiz 6=-352 (LC 11)

Max Uplift 3=-53 (LC 9), 4=-190 (LC 10),

6=-237 (LC 9)

Max Grav 3=323 (LC 37), 4=469 (LC 18),

6=756 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1259/1016, 2-3=-7/3, 1-6=-706/664,

1-7=0/0

BOT CHORD 5-6=-1184/1753, 4-5=-1030/1260

WEBS 2-5=-244/532, 1-5=-1432/1075,

2-4=-1358/1110

NOTES

Unbalanced roof live loads have been considered for this design

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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 DOI = 1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Provide adequate drainage to prevent water ponding.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 3, 237 lb uplift at joint 6 and 190 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-6=-20

Concentrated Loads (lb)

Vert: 3=-3, 11=-2

Trapezoidal Loads (lb/ft)

Vert: 1=-144-to-8=-123, 8=-123-to-2=-102, 2=-102to-9=-92, 9=-91-to-10=-84, 10=-84-to-11=-80, 11=-79-to-3=-69



June 6,2025



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

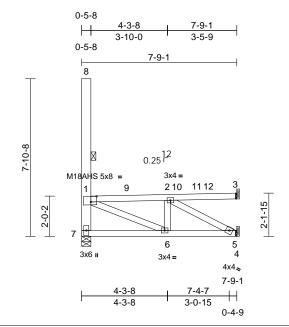
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | J03 | Jack-Open | 1 | 1 | Job Reference (optional) | 173987915 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:13:59





Scale = 1:57.6

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.74 | Vert(LL) | -0.01 | 6 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.21 | Vert(CT) | -0.02 | 6-7 | >999 | 180 | M18AHS | 186/179 |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.37 | Horz(CT) | 0.01 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 54 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1 6F BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 8-7:2x6 SP 2400F

2.0E BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

Except:

6-0-0 oc bracing: 1-7 7-5-0 oc bracing: 1-8

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

bracing.

WEBS 1 Row at midpt

REACTIONS (size) 3= Mechanical, 5= Mechanical,

7=0-5-8

Max Horiz 7=-352 (LC 11)

Max Uplift 3=-46 (LC 9), 5=-233 (LC 10),

7=-262 (LC 9) Max Grav

3=320 (LC 37), 5=454 (LC 18),

7=675 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1068/840, 2-3=-7/3, 1-7=-640/699,

1-8=0/0

BOT CHORD 6-7=-1152/1670, 5-6=-852/1070, 4-5=0/0 WEBS 2-6=-248/523, 1-6=-1201/875, 2-5=-1213/966

NOTES

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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 DOI = 1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 3, 262 lb uplift at joint 7 and 233 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 4-7=-20

Trapezoidal Loads (lb/ft)

Vert: 1=-147-to-9=-129, 9=-129-to-2=-112, 2=-112to-10=-107, 10=-107-to-11=-100, 11=-100-to-12=-91, 12=-90-to-3=-77



June 6,2025



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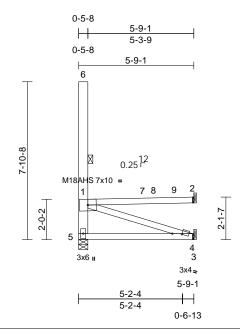
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | J04 | Jack-Open | 1 | 1 | Job Reference (optional) | 173987916 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:13:59 ID: 51yRCtGHcuWF? I8wtL3H25zEgcx-RfC? PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? figure for the property of the

Page: 1



Scale = 1:57.5

Plate Offsets (X, Y): [4:0-5-9,0-1-4]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.91 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.27 | Vert(CT) | -0.05 | 4-5 | >999 | 180 | M18AHS | 186/179 |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.87 | Horz(CT) | 0.02 | 2 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 42 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x6 SP 2400F 2.0E *Except* 1-4:2x4 SP

BRACING TOP CHORD

Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals.

Except:

6-0-0 oc bracing: 1-5

7-5-0 oc bracing: 1-6 **BOT CHORD** Rigid ceiling directly applied or 6-5-11 oc

bracing.

WEBS 1 Row at midpt

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

5=0-5-8

Max Horiz 5=-352 (LC 11)

Max Uplift 2=-77 (LC 10), 4=-242 (LC 10),

5=-315 (LC 9)

Max Grav 2=407 (LC 35), 4=333 (LC 11), 5=577 (LC 33)

(lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=-10/5, 1-5=-523/806, 1-6=0/0

BOT CHORD 4-5=-1292/1751, 3-4=0/0

1-4=-1836/1354 **WEBS**

NOTES

FORCES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft: L=24ft: eave=4ft: Cat. II: Exp C: Enclosed: MWFRS (directional) and C-C Corner (3) 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 6) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 2, 315 lb uplift at joint 5 and 242 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 3-5=-20 Concentrated Loads (lb)

Vert: 7=-16

Trapezoidal Loads (lb/ft)

Vert: 1=-147-to-7=-122, 7=-91-to-8=-89, 8=-116-

to-9=-98. 9=-97-to-2=-85



June 6,2025



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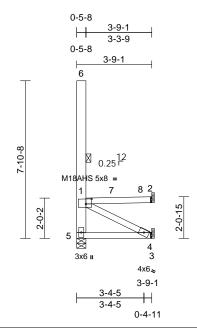
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | J05 | Jack-Open | 1 | 1 | Job Reference (optional) | 173987917 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:13:59 ID:6JUtmhTxc6frYvxBNPtGEhzEgcg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:57.6

Plate Offsets (X, Y): [1:0-3-8,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.74 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.20 | Vert(CT) | -0.01 | 4-5 | >999 | 180 | M18AHS | 186/179 |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.40 | Horz(CT) | 0.02 | 2 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 33 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x6 SP 2400F 2.0E *Except* 1-4:2x4 SP

BRACING TOP CHORD

Structural wood sheathing directly applied or

3-9-1 oc purlins, except end verticals.

Except:

6-0-0 oc bracing: 1-5

7-5-0 oc bracing: 1-6

BOT CHORD Rigid ceiling directly applied or 6-11-9 oc

bracing.

WEBS 1 Row at midpt

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

5=0-5-8

Max Horiz 5=-352 (LC 11)

Max Uplift 2=-71 (LC 10), 4=-387 (LC 10),

5=-455 (LC 9) Max Grav

2=363 (LC 35), 4=448 (LC 11),

5=539 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-8/3, 1-5=-645/1035, 1-6=0/0

BOT CHORD 4-5=-1147/1659, 3-4=0/0 1-4=-1854/1282

WEBS NOTES

1) Unbalanced roof live loads have been considered for

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft: L=24ft: eave=4ft: Cat. II: Exp C: Enclosed: MWFRS (directional) and C-C Corner (3) 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10
- 4) Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 6) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 2, 455 lb uplift at joint 5 and 387 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15 Uniform Loads (lb/ft)

Vert: 2-8=-61, 3-5=-20 Concentrated Loads (lb)

Vert: 2=-20, 7=-5 Trapezoidal Loads (lb/ft)

Vert: 1=-147-to-7=-135. 7=-132-to-8=-101



June 6,2025



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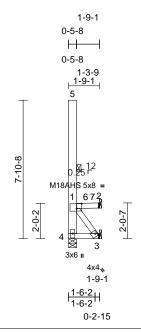
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | J06 | Jack-Open | 1 | 1 | Job Reference (optional) | 173987918 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:00 ID:h?K9iUejJPQsD3?uBL7YpezEgcS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:65.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.74 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.16 | Vert(CT) | 0.00 | 3-4 | >999 | 180 | M18AHS | 186/179 |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.28 | Horz(CT) | 0.01 | 2 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 25 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1 6F BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x6 SP 2400F 2.0E *Except* 1-3:2x4 SP

BRACING TOP CHORD

Structural wood sheathing directly applied or

1-9-1 oc purlins, except end verticals.

Except:

6-0-0 oc bracing: 1-4 7-5-0 oc bracing: 1-5

BOT CHORD Rigid ceiling directly applied or 7-6-1 oc

bracing.

WEBS 1 Row at midpt

REACTIONS (size) 2= Mechanical, 3= Mechanical,

4=0-5-8

Max Horiz 4=-352 (LC 11)

Max Uplift 2=-157 (LC 10), 3=-901 (LC 10),

4=-1050 (LC 9)

Max Grav 2=301 (LC 35), 3=931 (LC 11),

4=1066 (LC 12)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-5/6, 1-4=-1418/2190, 1-5=0/0

BOT CHORD 3-4=-999/1505 1-3=-2390/1587 **WEBS**

NOTES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft: L=24ft: eave=4ft: Cat. II: Exp C: Enclosed: MWFRS (directional) and C-C Corner (3) 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10
- 4) Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 6) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 157 lb uplift at joint 2, 1050 lb uplift at joint 4 and 901 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15 Uniform Loads (lb/ft)

Vert: 3-4=-20

Concentrated Loads (lb)

Vert: 2=-5, 7=-4

Trapezoidal Loads (lb/ft) Vert: 1=-131-to-6=-116, 6=-101-to-7=-100, 7=-100-

to-2=-98



June 6,2025



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

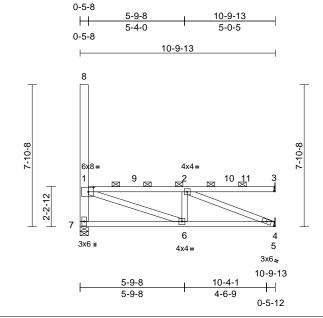
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | J07 | Jack-Open | 1 | 1 | Job Reference (optional) | 173987919 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:00 ID:tO0la2_Hj0ytaM8GqEd6xYzEgc0-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:63.8

Plate Offsets (X, Y): [1:0-3-8,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.80 | Vert(LL) | -0.04 | 6 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.29 | Vert(CT) | -0.06 | 6-7 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.76 | Horz(CT) | 0.02 | 5 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 67 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 8-7:2x6 SP 2400F 2.0E

BRACING

TOP CHORD 2-0-0 oc purlins (5-5-7 max.): 1-3, 1-8,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 7-3-6 oc

bracing.

3= Mechanical, 5= Mechanical, REACTIONS (size)

7=0-5-8 Max Horiz 7=-347 (LC 11)

3=-58 (LC 9), 5=-178 (LC 10), Max Uplift

7=-232 (LC 9)

Max Grav 3=338 (LC 37), 5=556 (LC 18),

7=879 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1302/1034, 2-3=0/0, 1-7=-823/657,

1-8=0/0 **BOT CHORD**

6-7=-1031/1539, 5-6=-1034/1302, 4-5=0/0

2-6=-302/514, 1-6=-1335/1262, 2-5=-1398/1111

WEBS NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10. Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 3, 232 lb uplift at joint 7 and 178 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-7=-20

Trapezoidal Loads (lb/ft)

Vert: 1=-169-to-9=-146, 9=-146-to-2=-124, 2=-124to-10=-104, 10=-104-to-11=-97, 11=-94-to-3=-79



June 6,2025



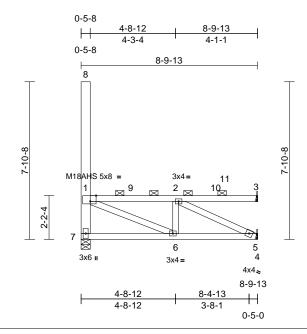
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | J08 | Jack-Open | 1 | 1 | Job Reference (optional) | 173987920 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:00 ID:PkWDWLO_x96C2RAcGfjrnVzEgbV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:57.6

Plate Offsets (X, Y): [1:0-3-8,Edge]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.82 | Vert(LL) | -0.02 | 6 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.20 | Vert(CT) | -0.03 | 6-7 | >999 | 180 | M18AHS | 186/179 |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.43 | Horz(CT) | 0.01 | 5 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 58 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 8-7:2x6 SP 2400F

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-8,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 7-3-10 oc

bracing.

3= Mechanical, 5= Mechanical, REACTIONS (size)

7=0-5-8 Max Horiz 7=-348 (LC 11)

3=-52 (LC 9), 5=-205 (LC 10), Max Uplift

7=-247 (LC 9)

Max Grav 3=346 (LC 37), 5=508 (LC 18),

7=780 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=-1118/896, 2-3=0/0, 1-7=-741/675,

1-8=0/0

BOT CHORD 6-7=-1038/1513. 5-6=-896/1118. 4-5=0/0 WEBS 2-6=-265/503, 1-6=-1130/937, 2-5=-1237/991

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10. Lu=50-0-0
- 4) Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 3, 247 lb uplift at joint 7 and 205 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-7=-20

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-9=-150, 9=-150-to-2=-133, 2=-133to-10=-117, 10=-117-to-11=-113, 11=-111-to-3=-89



June 6,2025



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

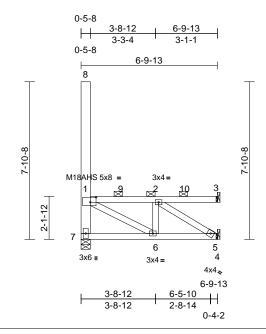
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| , | Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|---|-----------|-------|------------|-----|-----|--------------------------|-----------|
| | 2503401-A | J09 | Jack-Open | 1 | 1 | Job Reference (optional) | 173987921 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:00 ID:AYXgluhg2qFfYHaPEPgjInzEgb6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:57.6

Plate Offsets (X, Y): [1:0-3-8,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.83 | Vert(LL) | -0.01 | 6 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.18 | Vert(CT) | -0.01 | 6-7 | >999 | 180 | M18AHS | 186/179 |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.26 | Horz(CT) | 0.01 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 50 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 8-7:2x6 SP 2400F

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-8,

except end verticals.

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

bracing.

3= Mechanical, 5= Mechanical, REACTIONS (size)

7=0-5-8

Max Horiz 7=-349 (LC 11) 3=-44 (LC 9), 5=-256 (LC 10), Max Uplift

7=-282 (LC 9)

Max Grav 3=333 (LC 37), 5=479 (LC 18),

7=671 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-981/764, 2-3=0/0, 1-7=-640/733,

1-8=0/0

6-7=-1024/1511. 5-6=-764/981. 4-5=0/0

BOT CHORD WEBS 2-6=-269/541, 1-6=-1054/749, 2-5=-1155/899

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10. Lu=50-0-0
- 4) Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 3, 282 lb uplift at joint 7 and 256 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-7=-20

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-9=-154, 9=-154-to-2=-141, 2=-141to-10=-129, 10=-127-to-3=-99



June 6,2025



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

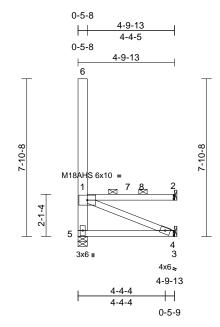
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | J10 | Jack-Open | 1 | 1 | Job Reference (optional) | 173987922 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:01 ID:ERxLv0t4WR8WraDlc3REPxzEgat-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 | 1.15 | TC | 0.85 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.23 | Vert(CT) | -0.02 | 4-5 | >999 | 180 | M18AHS | 186/179 |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.60 | Horz(CT) | 0.02 | 2 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 38 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E **BOT CHORD** 2x4 SP 1650F 1.6E

WFBS 2x6 SP 2400F 2.0E *Except* 1-4:2x4 SP

BRACING

TOP CHORD 2-0-0 oc purlins: 1-2, 1-6, except end

verticals

BOT CHORD Rigid ceiling directly applied or 6-11-4 oc

bracing

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

5=0-5-8

Max Horiz 5=-350 (LC 11)

Max Uplift 2=-71 (LC 10), 4=-292 (LC 10),

5=-364 (LC 9)

2=410 (LC 35), 4=371 (LC 11), Max Grav

5=566 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/0, 1-5=-534/882, 1-6=0/0

BOT CHORD 4-5=-1144/1609, 3-4=0/0

1-4=-1735/1233 WEBS

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10. Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 2, 364 lb uplift at joint 5 and 292 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads
- 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 3-5=-20

Concentrated Loads (lb)

Vert: 1=-1 Trapezoidal Loads (lb/ft)

Vert: 1=-166-to-7=-151, 7=-151-to-8=-146, 8=-143to-2=-108



June 6,2025



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

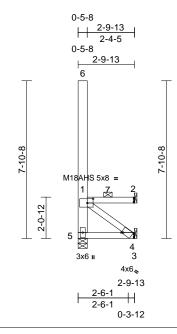
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | J11 | Jack-Open | 1 | 1 | Job Reference (optional) | 173987923 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:01 ID:IJL0282U_21O8utA_iCIW5zEgae-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:57.6

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.86 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.19 | Vert(CT) | 0.00 | 4-5 | >999 | 180 | M18AHS | 186/179 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.28 | Horz(CT) | 0.01 | 2 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 29 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F 2.0E

BRACING

TOP CHORD 2-0-0 oc purlins: 1-2, 1-6, except end

verticals

BOT CHORD Rigid ceiling directly applied or 7-3-15 oc

bracing.

REACTIONS (size) 2= Mechanical, 4= Mechanical, 5=0-5-8

Max Horiz 5=-351 (LC 11)

Max Uplift 2=-84 (LC 10), 4=-527 (LC 10),

5=-609 (LC 9)

Max Grav 2=333 (LC 35), 4=575 (LC 11),

5=645 (LC 12)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/0, 1-5=-840/1322, 1-6=0/0

4-5=-1043/1550, 3-4=0/0 BOT CHORD WEBS 1-4=-1905/1282

NOTES

FORCES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0

- 4) Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 2, 609 lb uplift at joint 5 and 527 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 3-5=-20

Concentrated Loads (lb)

Vert: 2=-2, 1=-13 Trapezoidal Loads (lb/ft)

Vert: 1=-148-to-7=-131, 7=-131-to-2=-114



June 6,2025



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

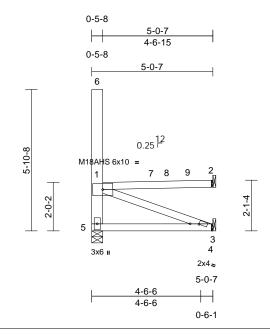
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | J59 | Jack-Open | 1 | 1 | Job Reference (optional) | 173987924 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:01 ID:E5L54JwvDImAtRCEb1JwfizEgwl-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:47.9

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.83 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.19 | Vert(CT) | -0.03 | 4-5 | >999 | 180 | M18AHS | 186/179 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.39 | Horz(CT) | 0.01 | 2 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 34 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-0-7 oc purlins, except end verticals. Rigid ceiling directly applied or 8-5-3 oc

BOT CHORD bracing.

REACTIONS (size) 2= Mechanical, 4= Mechanical, 5=0-5-8

Max Horiz 5=-249 (LC 11)

Max Uplift 2=-63 (LC 10), 4=-145 (LC 10),

5=-205 (LC 9)

Max Grav 2=397 (LC 35), 4=225 (LC 18),

5=541 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-10/4, 1-5=-494/581, 1-6=0/0

4-5=-768/1001, 3-4=0/0 BOT CHORD

WEBS 1-4=-1065/817

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- 4) Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation about its center.
- 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 2, 205 lb uplift at joint 5 and 145 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 3-5=-20

Trapezoidal Loads (lb/ft) Vert: 1=-148-to-7=-129, 7=-129-to-8=-124, 8=-123-

to-9=-107, 9=-106-to-2=-91



June 6,2025



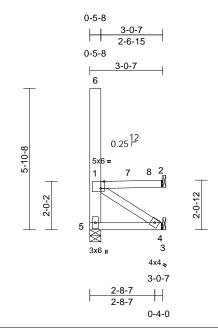
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | J60 | Jack-Open | 1 | 1 | Job Reference (optional) | 173987925 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:01 ID:mAJ8Rn7xSCnuouQIXOcgJ4zEgwV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:47.9

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.35 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.13 | Vert(CT) | 0.00 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.18 | Horz(CT) | 0.01 | 2 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 26 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-0-7 oc purlins, except end verticals. Rigid ceiling directly applied or 9-3-6 oc

BOT CHORD bracing.

REACTIONS (size) 2= Mechanical, 4= Mechanical, 5=0-5-8

Max Horiz 5=-249 (LC 11)

Max Uplift 2=-53 (LC 10), 4=-259 (LC 10),

5=-309 (LC 9)

Max Grav 2=344 (LC 35), 4=309 (LC 11),

5=420 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-7/3, 1-5=-461/745, 1-6=0/0

BOT CHORD 4-5=-647/930. 3-4=0/0

WEBS 1-4=-1101/766

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- 4) Provide adequate drainage to prevent water ponding.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 2, 309 lb uplift at joint 5 and 259 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 2-8=-61, 3-5=-20

Concentrated Loads (lb)

Vert: 2=-23

Trapezoidal Loads (lb/ft)

Vert: 1=-157-to-7=-127, 7=-127-to-8=-108



June 6,2025



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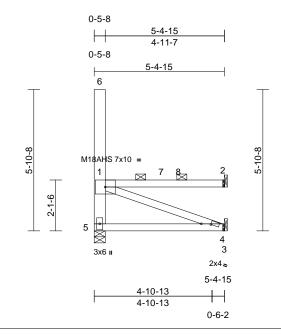
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | J61 | Jack-Open | 1 | 1 | Job Reference (optional) | 173987926 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:01

Page: 1



Scale = 1:47.9

Plate Offsets (X, Y): [4:0-4-9,0-1-4]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 1.00 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.20 | Vert(CT) | -0.04 | 4-5 | >999 | 180 | M18AHS | 186/179 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.43 | Horz(CT) | 0.01 | 2 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 36 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F

BRACING

TOP CHORD 2-0-0 oc purlins (2-6-0 max.): 1-2, 1-6,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 8-7-5 oc

bracing.

REACTIONS (size) 2= Mechanical, 4= Mechanical, 5=0-5-8

Max Horiz 5=-247 (LC 11)

Max Uplift 2=-66 (LC 10), 4=-131 (LC 10),

5=-196 (LC 9)

Max Grav 2=423 (LC 35), 4=233 (LC 18),

5=591 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/0, 1-5=-540/572, 1-6=0/0

BOT CHORD 4-5=-733/948. 3-4=0/0

WEBS 1-4=-1006/779

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0

- 4) Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 2, 196 lb uplift at joint 5 and 131 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 3-5=-20

Trapezoidal Loads (lb/ft)

Vert: 1=-169-to-7=-149, 7=-149-to-8=-144, 8=-141to-2=-101



June 6,2025



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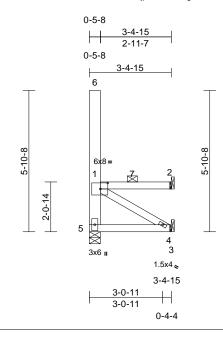
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | J62 | Jack-Open | 1 | 1 | Job Reference (optional) | 173987927 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:02 ID:?_SFb62FKsUzXjp5Y3UkxJzEgvI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:47.9

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.45 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.13 | Vert(CT) | 0.00 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.20 | Horz(CT) | 0.01 | 2 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 27 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F

BRACING

TOP CHORD 2-0-0 oc purlins: 1-2, 1-6, except end

verticals

BOT CHORD Rigid ceiling directly applied or 9-4-4 oc

bracing.

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

5=0-5-8 Max Horiz 5=-248 (LC 11)

Max Uplift 2=-53 (LC 10), 4=-225 (LC 10),

5=-278 (LC 9)

Max Grav 2=360 (LC 35), 4=282 (LC 11),

5=468 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/0, 1-5=-438/689, 1-6=0/0

BOT CHORD 4-5=-634/903. 3-4=0/0

WEBS 1-4=-1043/732

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0

- 4) Provide adequate drainage to prevent water ponding.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 2, 278 lb uplift at joint 5 and 225 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 3-5=-20

Trapezoidal Loads (lb/ft)

Vert: 1=-187-to-7=-148, 7=-148-to-2=-110



June 6,2025



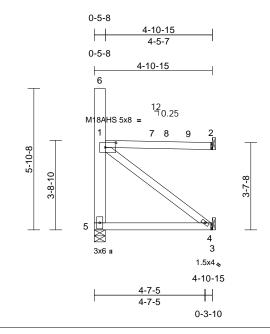
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | J101 | Jack-Open | 1 | 1 | Job Reference (optional) | 173987928 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:02 ID:UG7K4iuX43ABJKaM53DwDtzEguD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:47.9

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.72 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.14 | Vert(CT) | -0.02 | 4-5 | >999 | 180 | M18AHS | 186/179 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.27 | Horz(CT) | 0.01 | 2 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 35 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F 2.0E

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

4-10-15 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

5=0-5-8 Max Horiz 5=-211 (LC 11)

Max Uplift 2=-58 (LC 10), 4=-120 (LC 10),

5=-181 (LC 9)

Max Grav 2=379 (LC 35), 4=212 (LC 11),

5=500 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-4/9, 1-5=-455/519, 1-6=0/0

BOT CHORD 4-5=-334/418. 3-4=0/0

WEBS 1-4=-523/418

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- 4) Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 2, 181 lb uplift at joint 5 and 120 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft) Vert: 3-5=-20

Trapezoidal Loads (lb/ft)

Vert: 1=-132-to-7=-115, 7=-115-to-8=-112, 8=-111-

to-9=-98, 9=-98-to-2=-88



June 6,2025



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

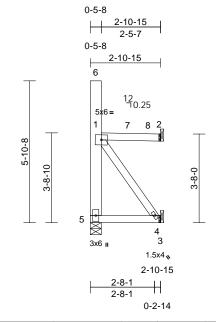
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | J102 | Jack-Open | 1 | 1 | Job Reference (optional) | 173987929 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:02 ID:0L5NRA4ZI_BvEnpR1QWgtEzEgtz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:47.7

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.33 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.06 | Vert(CT) | 0.00 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.19 | Horz(CT) | 0.01 | 2 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 27 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E **BOT CHORD** 2x4 SP 1650F 1.6E

WFBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F

BRACING TOP CHORD

Structural wood sheathing directly applied or

2-10-15 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing

REACTIONS (size)

2= Mechanical, 4= Mechanical,

5=0-5-8

Max Horiz 5=-211 (LC 11)

Max Uplift 2=-42 (LC 10), 4=-230 (LC 10),

5=-272 (LC 9)

2=335 (LC 35), 4=299 (LC 11), Max Grav

5=398 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-3/6, 1-5=-417/647, 1-6=0/0

BOT CHORD 4-5=-288/390, 3-4=0/0

WEBS 1-4=-655/484

NOTES

TOP CHORD

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 2, 272 lb uplift at joint 5 and 230 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 2-8=-61, 3-5=-20

Concentrated Loads (lb)

Vert: 2=-20

Trapezoidal Loads (lb/ft)

Vert: 1=-142-to-7=-118, 7=-118-to-8=-102



June 6,2025



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

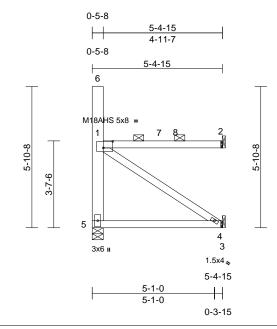
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | J103 | Jack-Open | 1 | 1 | Job Reference (optional) | 173987930 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:02 ID:jXDa5PPVyHb4zxNd6bV?TxzEgtY-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:47.9

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.99 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.17 | Vert(CT) | -0.03 | 4-5 | >999 | 180 | M18AHS | 186/179 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.32 | Horz(CT) | 0.01 | 2 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 37 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F 2.0E

BRACING

TOP CHORD 2-0-0 oc purlins: 1-2, 1-6, except end

verticals

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

bracing.

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

5=0-5-8 Max Horiz 5=-214 (LC 11)

Max Uplift 2=-63 (LC 10), 4=-111 (LC 10),

5=-171 (LC 9)

Max Grav 2=426 (LC 35), 4=221 (LC 18),

5=592 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/0, 1-5=-541/511, 1-6=0/0

BOT CHORD 4-5=-375/449. 3-4=0/0

WEBS 1-4=-537/448

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0

- 4) Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation about its center.
- 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 2, 171 lb uplift at joint 5 and 111 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 3-5=-20

Concentrated Loads (lb)

Vert: 1=-1 Trapezoidal Loads (lb/ft)

Vert: 1=-169-to-7=-149, 7=-149-to-8=-144, 8=-142-

to-2=-102



June 6,2025



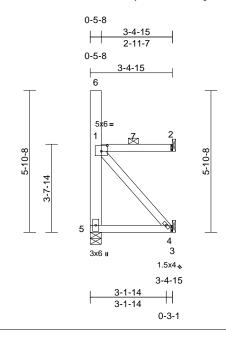
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | J104 | Jack-Open | 1 | 1 | Job Reference (optional) | 173987931 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:02 ID: nQdFFXbvPuUyGE0WUEGWa5zEgtJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff Page: 1



Scale = 1:47.8

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.45 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.08 | Vert(CT) | 0.00 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.20 | Horz(CT) | 0.01 | 2 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 29 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1 6F BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F

BRACING

TOP CHORD 2-0-0 oc purlins: 1-2, 1-6, except end

verticals

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

bracing.

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

5=0-5-8 Max Horiz 5=-213 (LC 11)

Max Uplift 2=-45 (LC 10), 4=-195 (LC 10),

5=-235 (LC 9)

Max Grav 2=362 (LC 35), 4=264 (LC 11),

5=467 (LC 33)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/0, 1-5=-436/585, 1-6=0/0

BOT CHORD 4-5=-312/410. 3-4=0/0

WEBS 1-4=-610/465

NOTES

FORCES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0

- 4) Provide adequate drainage to prevent water ponding.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 2, 235 lb uplift at joint 5 and 195 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 3-5=-20 Concentrated Loads (lb)

Vert: 1=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-186-to-7=-148, 7=-148-to-2=-109



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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.

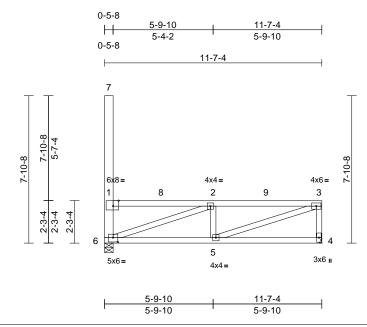
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M08 | Flat | 1 | 1 | Job Reference (optional) | 173987932 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:03 ID:KOIIahDbdMUoz_rSu5BAYZzEgrC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.90 | Vert(LL) | -0.05 | 5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.30 | Vert(CT) | -0.07 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.79 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | _ | | | | | | Weight: 73 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 7-6:2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals. Rigid ceiling directly applied or 6-11-6 oc

BOT CHORD bracing.

REACTIONS 4= Mechanical, 6=0-5-8 (size)

Max Horiz 6=-362 (LC 9)

Max Uplift 4=-233 (LC 10), 6=-233 (LC 9)

Max Grav 4=747 (LC 36), 6=913 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-1515/1013, 2-3=-1411/1080, TOP CHORD

3-4=-690/556, 1-6=-551/204, 1-7=0/0

BOT CHORD 5-6=-1133/1423, 4-5=-71/94 WEBS

2-5=-369/468, 3-5=-1125/1433, 2-6=-1369/1355

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- 4) Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 233 lb uplift at joint 4 and 233 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate
 - Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-6=-20

Concentrated Loads (lb)

Vert: 1=-1, 3=-2

Trapezoidal Loads (lb/ft)

Vert: 1=-169-to-8=-146, 8=-146-to-2=-124, 2=-124-

to-9=-102, 9=-102-to-3=-79



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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.

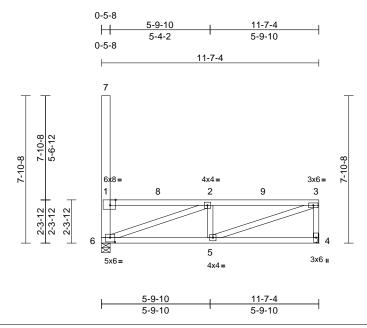
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M09 | Flat | 1 | 1 | Job Reference (optional) | 173987933 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:03 ID:_i0q5oM6o2?5PqlmbcP_15zEgr0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.90 | Vert(LL) | -0.04 | 5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.29 | Vert(CT) | -0.07 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.77 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 73 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 7-6:2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals. Rigid ceiling directly applied or 7-0-3 oc

BOT CHORD

bracing.

REACTIONS 4= Mechanical, 6=0-5-8 (size)

Max Horiz 6=-361 (LC 9)

Max Uplift 4=-232 (LC 10), 6=-232 (LC 9)

Max Grav 4=739 (LC 36), 6=908 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-1481/991, 2-3=-1376/1057

3-4=-683/556, 1-6=-549/204, 1-7=0/0

BOT CHORD 5-6=-1111/1388, 4-5=-70/91

WEBS 2-5=-366/468, 3-5=-1106/1402,

2-6=-1339/1331

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- 4) Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 232 lb uplift at joint 4 and 232 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate
 - Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-6=-20

Concentrated Loads (lb)

Vert: 1=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-8=-145, 8=-145-to-2=-123, 2=-123-

to-9=-101, 9=-101-to-3=-78



June 6,2025



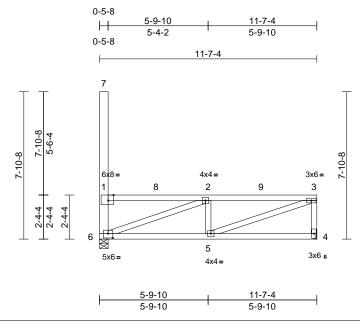
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M10 | Flat | 1 | 1 | Job Reference (optional) | 173987934 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:03 ID:90WiltKXSRHtR5Ky29T?WQzEuD4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:61.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.90 | Vert(LL) | -0.04 | 5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.29 | Vert(CT) | -0.07 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.76 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 73 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 7-6:2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 7-1-0 oc

bracing

REACTIONS 4= Mechanical, 6=0-5-8 (size)

Max Horiz 6=-361 (LC 9)

Max Uplift 4=-232 (LC 10), 6=-232 (LC 9)

Max Grav 4=739 (LC 36), 6=908 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-1448/970, 2-3=-1349/1036

3-4=-683/556, 1-6=-549/203, 1-7=0/0

BOT CHORD 5-6=-1091/1361, 4-5=-69/88 WEBS

2-5=-366/469, 3-5=-1087/1379, 2-6=-1316/1307

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 232 lb uplift at joint 4 and 232 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate
 - Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-6=-20

Concentrated Loads (lb) Vert: 1=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-8=-145, 8=-145-to-2=-123, 2=-123-

to-9=-101, 9=-101-to-3=-78



June 6,2025



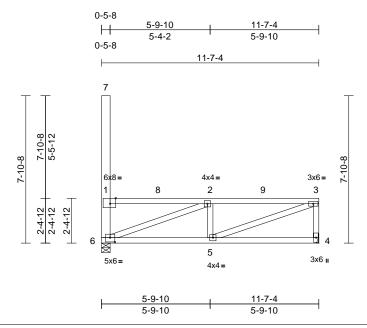
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|----------|
| 2503401-A | M11 | Flat | 1 | 1 | Job Reference (optional) | 73987935 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:03 ID:DHwNS?Vxv2AlkO_qQoEWdazEuCr-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:61.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.90 | Vert(LL) | -0.04 | 5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.28 | Vert(CT) | -0.06 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.75 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 74 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 7-6:2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 7-1-11 oc

bracing.

REACTIONS 4= Mechanical, 6=0-5-8 (size)

Max Horiz 6=-360 (LC 11)

Max Uplift 4=-232 (LC 10), 6=-232 (LC 9)

Max Grav 4=739 (LC 36), 6=908 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-1417/950, 2-3=-1323/1015,

3-4=-684/556, 1-6=-548/203, 1-7=0/0

BOT CHORD 5-6=-1071/1335, 4-5=-68/86

2-5=-367/469, 3-5=-1070/1356,

2-6=-1295/1285

WEBS NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- 4) Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 232 lb uplift at joint 4 and 232 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate
 - Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-6=-20

Concentrated Loads (lb)

Vert: 1=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-8=-145, 8=-145-to-2=-123, 2=-123-

to-9=-101, 9=-101-to-3=-78



June 6,2025



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

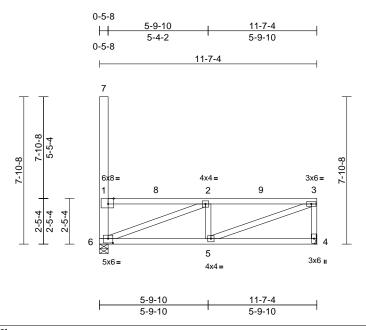
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M12 | Flat | 1 | 1 | Job Reference (optional) | 173987936 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:04 ID:H9K2b8hLNf3c1idjpS?1klzEuCc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.90 | Vert(LL) | -0.04 | 5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.28 | Vert(CT) | -0.06 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.75 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 74 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 7-6:2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 7-2-7 oc

bracing.

REACTIONS 4= Mechanical, 6=0-5-8 (size)

Max Horiz 6=-359 (LC 9)

Max Uplift 4=-232 (LC 10), 6=-232 (LC 9)

Max Grav 4=739 (LC 36), 6=908 (LC 33)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-1387/930. 2-3=-1298/995.

3-4=-684/556, 1-6=-548/203, 1-7=0/0

BOT CHORD 5-6=-1052/1311, 4-5=-68/83

WEBS 2-5=-367/469, 3-5=-1053/1335,

2-6=-1275/1263

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- 4) Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 232 lb uplift at joint 4 and 232 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate
 - Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-6=-20

Concentrated Loads (lb)

Vert: 1=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-8=-145, 8=-145-to-2=-123, 2=-123-

to-9=-101, 9=-101-to-3=-78



June 6,2025



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

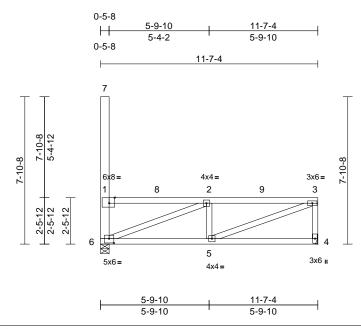
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M13 | Flat | 1 | 1 | Job Reference (optional) | 173987937 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:04 ID:H2xTaBSV8Ct5lvo6Va1dpazEgqv-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.90 | Vert(LL) | -0.04 | 5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.27 | Vert(CT) | -0.06 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.74 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 74 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 7-6:2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals. Rigid ceiling directly applied or 7-3-4 oc

BOT CHORD

bracing.

REACTIONS 4= Mechanical, 6=0-5-8 (size)

Max Horiz 6=-359 (LC 11)

Max Uplift 4=-232 (LC 10), 6=-232 (LC 9)

Max Grav 4=739 (LC 36), 6=908 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-1358/911, 2-3=-1274/975, TOP CHORD

3-4=-684/556, 1-6=-548/203, 1-7=0/0

BOT CHORD 5-6=-1034/1287, 4-5=-67/81 WEBS

2-5=-367/469, 3-5=-1037/1314, 2-6=-1255/1242

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- 4) Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 232 lb uplift at joint 4 and 232 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate
 - Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-6=-20

Concentrated Loads (lb)

Vert: 1=-1 Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-8=-145, 8=-145-to-2=-123, 2=-123-

to-9=-101, 9=-101-to-3=-78



June 6,2025



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

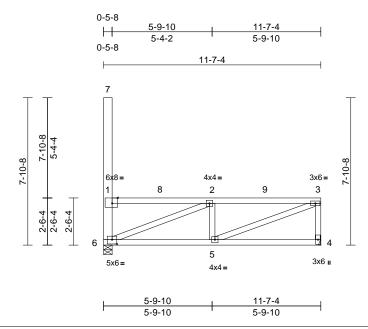
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M14 | Flat | 1 | 1 | Job Reference (optional) | 173987938 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:04 ID:S96dtyaPZaGYZb7DfOjCmuzEgqk-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.90 | Vert(LL) | -0.04 | 5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.27 | Vert(CT) | -0.06 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.73 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 74 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 7-6:2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 7-4-1 oc

bracing.

REACTIONS 4= Mechanical, 6=0-5-8 (size)

Max Horiz 6=-358 (LC 9)

Max Uplift 4=-232 (LC 10), 6=-232 (LC 9)

Max Grav 4=739 (LC 36), 6=908 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-1330/893. 2-3=-1250/957.

3-4=-684/557, 1-6=-548/203, 1-7=0/0

BOT CHORD 5-6=-1016/1264, 4-5=-67/79 WEBS

2-5=-367/470, 3-5=-1021/1295,

2-6=-1236/1222

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- 4) Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 232 lb uplift at joint 4 and 232 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate
 - Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-6=-20

Concentrated Loads (lb)

Vert: 1=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-8=-145, 8=-145-to-2=-123, 2=-123-

to-9=-101, 9=-101-to-3=-78



June 6,2025



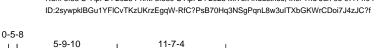
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

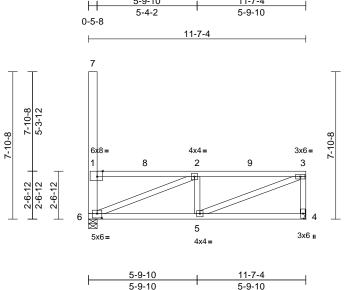
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M15 | Flat | 1 | 1 | Job Reference (optional) | 173987939 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:04





Scale = 1:61.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defI | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.90 | Vert(LL) | -0.04 | 5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.27 | Vert(CT) | -0.06 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.72 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 74 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 7-6:2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 7-4-12 oc

bracing

REACTIONS 4= Mechanical, 6=0-5-8 (size)

Max Horiz 6=358 (LC 12)

Max Uplift 4=-232 (LC 10), 6=-232 (LC 9)

Max Grav 4=739 (LC 36), 6=908 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1302/875. 2-3=-1228/939.

3-4=-684/557, 1-6=-547/203, 1-7=0/0

BOT CHORD 5-6=-999/1241, 4-5=-66/76 WEBS

2-5=-367/470, 3-5=-1006/1275,

2-6=-1217/1203

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 232 lb uplift at joint 4 and 232 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-6=-20

Concentrated Loads (lb) Vert: 1=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-8=-145, 8=-145-to-2=-123, 2=-123-

to-9=-101, 9=-101-to-3=-78



June 6,2025

Page: 1



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

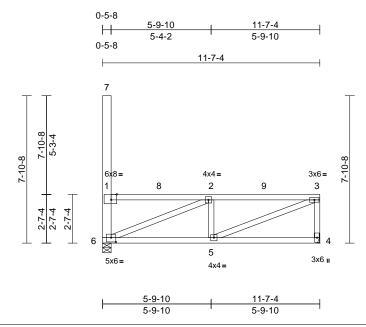
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M16 | Flat | 1 | 1 | Job Reference (optional) | 173987940 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:05 ID:hAgTLrvjRaYrhb7DAsBJpNzEgqK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.90 | Vert(LL) | -0.03 | 5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.26 | Vert(CT) | -0.06 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.72 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | _ | | | | | | Weight: 74 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 7-6:2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 7-5-9 oc

bracing.

REACTIONS 4= Mechanical, 6=0-5-8 (size)

Max Horiz 6=-357 (LC 9)

Max Uplift 4=-232 (LC 10), 6=-232 (LC 9)

Max Grav 4=739 (LC 36), 6=908 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1276/858. 2-3=-1206/921.

3-4=-685/557, 1-6=-547/202, 1-7=0/0 **BOT CHORD** 5-6=-983/1220, 4-5=-66/74

WEBS 2-5=-367/470, 3-5=-991/1257,

2-6=-1200/1184

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- 4) Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 232 lb uplift at joint 4 and 232 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate
 - Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-6=-20

Concentrated Loads (lb)

Vert: 1=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-8=-145, 8=-145-to-2=-123, 2=-123-

to-9=-101, 9=-101-to-3=-78



June 6,2025



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

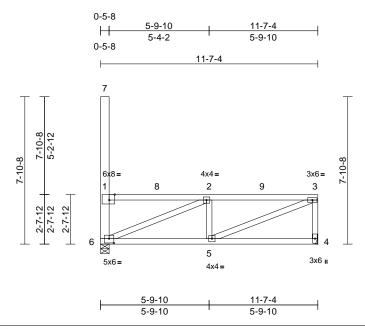
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M17 | Flat | 1 | 1 | Job Reference (optional) | 173987941 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:05 ID:HsWIHd3V8tJsNIBv?oRbOKzEgq6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61.5

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

| Loading | (psf) | Spacing | 2-0-0 | csi | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.89 | Vert(LL) | -0.03 | 5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.26 | Vert(CT) | -0.06 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.71 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 75 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 7-6:2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals. Rigid ceiling directly applied or 7-6-4 oc

BOT CHORD bracing.

REACTIONS 4= Mechanical, 6=0-5-8 (size)

Max Horiz 6=-356 (LC 11)

Max Uplift 4=-232 (LC 10), 6=-232 (LC 9)

Max Grav 4=739 (LC 36), 6=908 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1251/842. 2-3=-1185/904.

3-4=-685/557, 1-6=-547/202, 1-7=0/0

BOT CHORD 5-6=-967/1199, 4-5=-65/73 WEBS

2-5=-367/470, 3-5=-977/1239,

2-6=-1183/1166

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- 4) Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 232 lb uplift at joint 4 and 232 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate
 - Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-6=-20

Concentrated Loads (lb)

Vert: 1=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-8=-145, 8=-145-to-2=-123, 2=-123-

to-9=-101, 9=-101-to-3=-78



June 6,2025



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

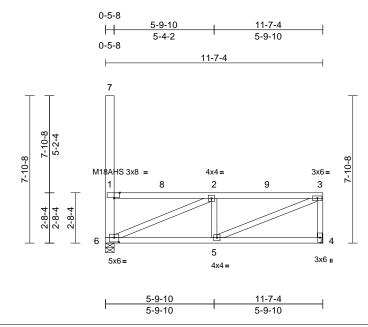
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M18 | Flat | 1 | 1 | Job Reference (optional) | 173987942 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:05 ID:TzhvaOCOYFhIBRX08c8AKfzEgpx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.89 | Vert(LL) | -0.03 | 5 | >999 | 240 | M18AHS | 186/179 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.26 | Vert(CT) | -0.05 | 4-5 | >999 | 180 | MT20 | 244/190 |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.70 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 75 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 7-6:2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 7-6-15 oc

bracing

REACTIONS 4= Mechanical, 6=0-5-8 (size)

Max Horiz 6=-356 (LC 9)

Max Uplift 4=-231 (LC 10), 6=-231 (LC 9)

Max Grav 4=739 (LC 36), 6=908 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1227/826. 2-3=-1165/888.

3-4=-685/557, 1-6=-547/202, 1-7=0/0

BOT CHORD 5-6=-952/1179, 4-5=-65/71

WEBS 2-5=-367/470, 3-5=-964/1222,

2-6=-1166/1149

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 231 lb uplift at joint 4 and 231 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-6=-20 Concentrated Loads (lb)

Vert: 1=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-8=-145, 8=-145-to-2=-123, 2=-123-

to-9=-101, 9=-101-to-3=-78



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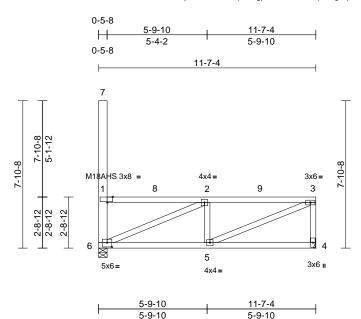
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M19 | Flat | 1 | 1 | Job Reference (optional) | 173987943 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:05 ID:6HPS5VLwjxCbdHSKr7M_pAzEgpl-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:61.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.89 | Vert(LL) | -0.03 | 5 | >999 | 240 | M18AHS | 186/179 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.25 | Vert(CT) | -0.05 | 4-5 | >999 | 180 | MT20 | 244/190 |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.70 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 75 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1 6F BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 7-6:2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals.

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

bracing

REACTIONS 4= Mechanical, 6=0-5-8 (size)

Max Horiz 6=355 (LC 12)

Max Uplift 4=-231 (LC 10), 6=-231 (LC 9)

Max Grav 4=739 (LC 36), 6=908 (LC 33) **FORCES** (lb) - Maximum Compression/Maximum

Tension

1-2=-1203/811, 2-3=-1145/872, 3-4=-685/557, TOP CHORD

1-6=-546/202, 1-7=0/0

BOT CHORD 5-6=-937/1160, 4-5=-64/69

2-5=-367/470, 3-5=-950/1205,

WEBS 2-6=-1150/1132

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 231 lb uplift at joint 4 and 231 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-6=-20

Concentrated Loads (lb)

Vert: 1=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-8=-145, 8=-145-to-2=-123, 2=-123-

to-9=-101, 9=-101-to-3=-78



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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.

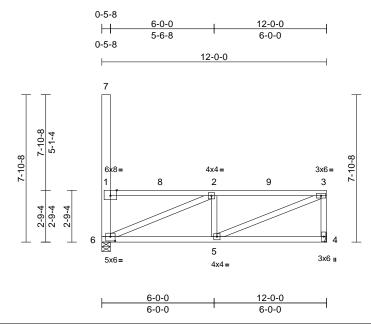
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M20 | Flat | 1 | 1 | Job Reference (optional) | 173987944 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:06 ID:vcHSkcKEnWCi84FcFnmgn3zEglv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.95 | Vert(LL) | -0.03 | 5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.26 | Vert(CT) | -0.06 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.77 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 77 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 7-6:2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 7-7-1 oc

bracing.

REACTIONS 4= Mechanical, 6=0-5-8 (size)

Max Horiz 6=-355 (LC 11)

Max Uplift 4=-230 (LC 10), 6=-230 (LC 9)

Max Grav 4=748 (LC 36), 6=927 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-1183/799, 2-3=-1184/883, 3-4=-692/559, TOP CHORD

1-6=-556/205, 1-7=0/0

BOT CHORD 5-6=-949/1199, 4-5=-66/71 WEBS 2-5=-370/471, 3-5=-959/1243,

2-6=-1185/1138

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- 4) Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 230 lb uplift at joint 4 and 230 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate
 - Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-6=-20

Concentrated Loads (lb)

Vert: 1=-1, 3=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-8=-145, 8=-145-to-2=-122, 2=-122-

to-9=-99, 9=-99-to-3=-76



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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.

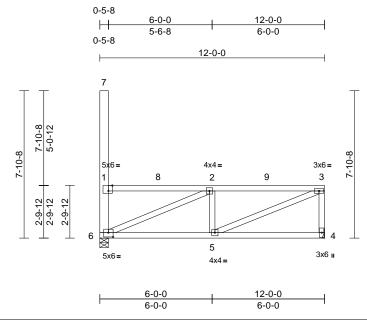
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M21 | Flat | 1 | 1 | Job Reference (optional) | 173987945 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:06 ID:Zw?_FjTlyCi?awAwyJ_UHbzEglj-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.75 | Vert(LL) | -0.03 | 5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.29 | Vert(CT) | -0.06 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.76 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | _ | | | | | | Weight: 77 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 7-6:2x6 SP 2400F 2.0E

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

REACTIONS 4= Mechanical, 6=0-5-8 (size)

Max Horiz 6=-354 (LC 11)

Max Uplift 4=-230 (LC 10), 6=-230 (LC 9) Max Grav 4=744 (LC 36), 6=925 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-1154/780, 2-3=-1162/869, 3-4=-689/559, TOP CHORD

1-6=-556/208, 1-7=0/0

BOT CHORD 5-6=-936/1177, 4-5=-63/69 WEBS

2-5=-369/472, 3-5=-950/1226,

2-6=-1163/1113

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 230 lb uplift at joint 4 and 230 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate
 - Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-6=-20

Concentrated Loads (lb)

Vert: 1=-1 Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-8=-145, 8=-145-to-2=-122, 2=-122-

to-9=-98, 9=-98-to-3=-75



June 6,2025



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

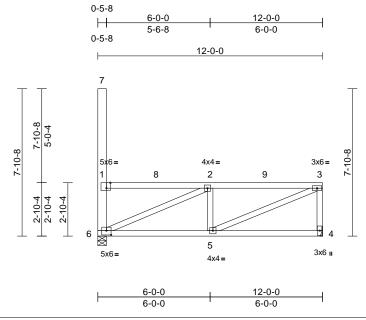
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M22 | Flat | 1 | 1 | Job Reference (optional) | 173987946 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:06 ID:k198ZTcfNb5RPdW157h3DvzEgIY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.75 | Vert(LL) | -0.03 | 5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.28 | Vert(CT) | -0.05 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.75 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 77 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 7-6:2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 7-8-7 oc

bracing

REACTIONS 4= Mechanical, 6=0-5-8 (size)

Max Horiz 6=-353 (LC 11)

Max Uplift 4=-230 (LC 10), 6=-230 (LC 9)

Max Grav 4=744 (LC 36), 6=925 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-1133/766, 2-3=-1143/854, 3-4=-689/559,

1-6=-556/208, 1-7=0/0

BOT CHORD 5-6=-922/1158, 4-5=-63/69

WEBS 2-5=-369/472, 3-5=-938/1210,

2-6=-1148/1097

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 230 lb uplift at joint 4 and 230 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate
 - Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-6=-20

Concentrated Loads (lb)

Vert: 1=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-8=-145, 8=-145-to-2=-122, 2=-122-

to-9=-98, 9=-98-to-3=-75



June 6,2025



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

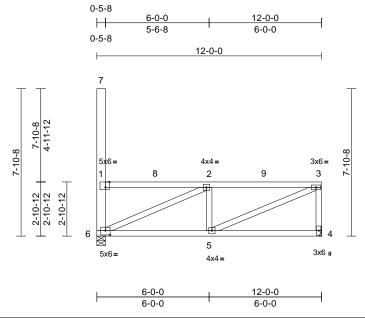
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M23 | Flat | 1 | 1 | Job Reference (optional) | 173987947 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:06 ID:Kk0RVGmR4usS4majw3xLnszEglK-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.75 | Vert(LL) | -0.03 | 5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.28 | Vert(CT) | -0.05 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.75 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 77 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 7-6:2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 7-9-2 oc

bracing.

REACTIONS 4= Mechanical, 6=0-5-8 (size)

Max Horiz 6=-353 (LC 9)

Max Uplift 4=-230 (LC 10), 6=-230 (LC 9)

Max Grav 4=744 (LC 36), 6=925 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-1112/753, 2-3=-1125/839, 3-4=-689/559, TOP CHORD

1-6=-556/208, 1-7=0/0

BOT CHORD 5-6=-909/1141, 4-5=-63/69 WEBS

2-5=-369/472, 3-5=-926/1194,

2-6=-1133/1083 NOTES

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 230 lb uplift at joint 4 and 230 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-6=-20

Concentrated Loads (lb)

Vert: 1=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-8=-145, 8=-145-to-2=-122, 2=-122-

to-9=-98, 9=-98-to-3=-75



June 6,2025



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

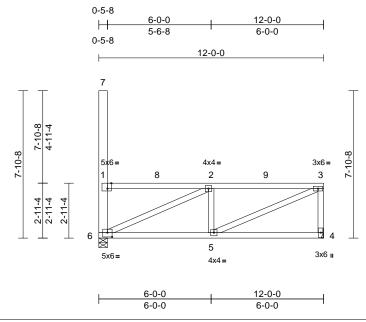
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M24 | Flat | 1 | 1 | Job Reference (optional) | 173987948 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:07 ID:z1kz0MwzFaNIWcV1da89HOzEgl8-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.75 | Vert(LL) | -0.03 | 5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.28 | Vert(CT) | -0.05 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.74 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 77 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 7-6:2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 7-9-13 oc

BOT CHORD

bracing

REACTIONS 4= Mechanical, 6=0-5-8 (size)

Max Horiz 6=-352 (LC 9)

Max Uplift 4=-230 (LC 10), 6=-230 (LC 9)

Max Grav 4=744 (LC 36), 6=925 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-1092/740. 2-3=-1107/826.

3-4=-689/559, 1-6=-556/208, 1-7=0/0

BOT CHORD 5-6=-896/1123, 4-5=-63/69 WEBS 2-5=-369/472, 3-5=-915/1179,

2-6=-1119/1068

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- 4) Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 230 lb uplift at joint 4 and 230 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate
 - Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-6=-20

Concentrated Loads (lb)

Vert: 1=-1 Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-8=-145, 8=-145-to-2=-122, 2=-122-

to-9=-98, 9=-98-to-3=-75



June 6,2025



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

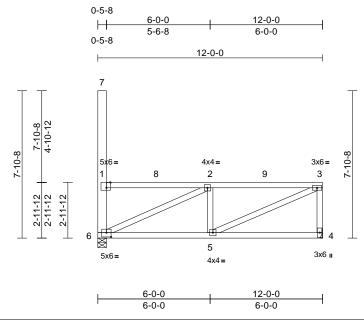
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----|
| 2503401-A | M25 | Flat | 1 | 1 | Job Reference (optional) | 949 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:07 ID:99v7K72sfylBLIr8mOrkDizEgkz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.75 | Vert(LL) | -0.03 | 5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.27 | Vert(CT) | -0.05 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.74 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 78 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 7-6:2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 7-10-7 oc

BOT CHORD bracing

REACTIONS 4= Mechanical, 6=0-5-8 (size)

Max Horiz 6=-352 (LC 9)

Max Uplift 4=-230 (LC 10), 6=-230 (LC 9)

Max Grav 4=744 (LC 36), 6=925 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1072/727. 2-3=-1090/812.

3-4=-689/559, 1-6=-556/207, 1-7=0/0

BOT CHORD 5-6=-884/1106, 4-5=-62/69 WEBS

2-5=-369/473, 3-5=-904/1165, 2-6=-1105/1054

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- 4) Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 230 lb uplift at joint 4 and 230 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate
 - Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-6=-20

Concentrated Loads (lb)

Vert: 1=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-8=-145, 8=-145-to-2=-122, 2=-122-

to-9=-98, 9=-98-to-3=-75



June 6,2025



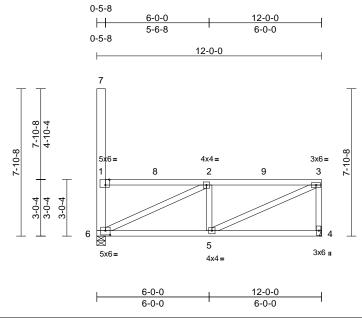
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M26 | Flat | 1 | 1 | Job Reference (optional) | 173987950 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:07 ID:KG3HduBm3L8d9?BFvCYKA1zEgko-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:61.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.75 | Vert(LL) | -0.03 | 5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.27 | Vert(CT) | -0.05 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.73 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 78 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 7-6:2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 7-11-2 oc

bracing

REACTIONS 4= Mechanical, 6=0-5-8 (size)

Max Horiz 6=-351 (LC 9)

Max Uplift 4=-229 (LC 10), 6=-229 (LC 9)

Max Grav 4=744 (LC 36), 6=925 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-1053/715. 2-3=-1074/799.

3-4=-690/560, 1-6=-555/207, 1-7=0/0

BOT CHORD 5-6=-872/1090, 4-5=-62/69 WEBS 2-5=-369/473, 3-5=-893/1151,

2-6=-1092/1041

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 229 lb uplift at joint 4 and 229 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate
 - Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-6=-20

Concentrated Loads (lb)

Vert: 1=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-8=-145, 8=-145-to-2=-122, 2=-122-

to-9=-98, 9=-98-to-3=-75



June 6,2025



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

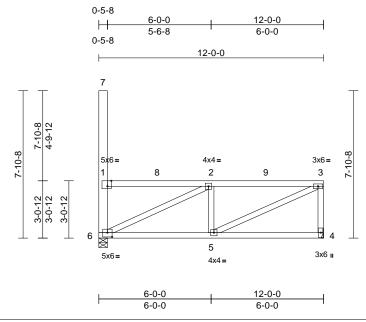
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M27 | Flat | 1 | 1 | Job Reference (optional) | 173987951 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:07 ID:1TBVI7WiieYou8IR?NXfmjzEgkN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.75 | Vert(LL) | -0.03 | 5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.27 | Vert(CT) | -0.05 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.73 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | _ | | | | | | Weight: 78 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 7-6:2x6 SP 2400F 2.0E

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 7-11-13 oc

bracing.

REACTIONS 4= Mechanical, 6=0-5-8 (size)

Max Horiz 6=350 (LC 10)

Max Uplift 4=-229 (LC 10), 6=-229 (LC 9)

Max Grav 4=744 (LC 36), 6=925 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-1035/703. 2-3=-1057/786.

3-4=-690/560, 1-6=-555/207, 1-7=0/0

BOT CHORD 5-6=-860/1074, 4-5=-62/69 WEBS 2-5=-369/473, 3-5=-883/1138,

2-6=-1079/1028

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- 4) Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 229 lb uplift at joint 4 and 229 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate
 - Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-6=-20

Concentrated Loads (lb)

Vert: 1=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-8=-145, 8=-145-to-2=-122, 2=-122-

to-9=-98, 9=-98-to-3=-75



June 6,2025



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

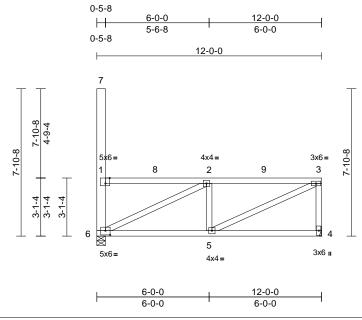
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa |
|-----------|-------|------------|-----|-----|--------------------------|
| 2503401-A | M28 | Flat | 1 | 1 | Job Reference (optional) |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:08 ID:hmw1pDfEtK35L_fliulTFFzEgkB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.75 | Vert(LL) | -0.03 | 5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.27 | Vert(CT) | -0.05 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.72 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 78 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 7-6:2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

BOT CHORD bracing

REACTIONS 4= Mechanical, 6=0-5-8 (size)

Max Horiz 6=350 (LC 12)

Max Uplift 4=-229 (LC 10), 6=-229 (LC 9)

Max Grav 4=744 (LC 36), 6=925 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1017/692. 2-3=-1042/774.

3-4=-690/560, 1-6=-555/207, 1-7=0/0

BOT CHORD 5-6=-849/1059, 4-5=-62/68 WEBS

2-5=-369/473, 3-5=-873/1124,

2-6=-1067/1015

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- 4) Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 229 lb uplift at joint 4 and 229 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate
 - Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-6=-20

Concentrated Loads (lb) Vert: 1=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-8=-145, 8=-145-to-2=-122, 2=-122-

to-9=-98, 9=-98-to-3=-75



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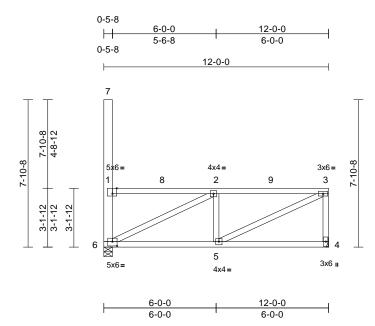
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M29 | Flat | 1 | 1 | Job Reference (optional) | 173987953 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:08 ID:K4eZLKol2?ZOnqa3PPyHknzEgk?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:61.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.75 | Vert(LL) | -0.03 | 5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.27 | Vert(CT) | -0.05 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.72 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 78 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 7-6:2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 8-1-1 oc

bracing.

REACTIONS 4= Mechanical, 6=0-5-8 (size)

Max Horiz 6=-349 (LC 9)

Max Uplift 4=-229 (LC 10), 6=-229 (LC 9)

Max Grav 4=744 (LC 36), 6=925 (LC 33)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-999/681, 2-3=-1026/761, 3-4=-690/560,

1-6=-555/207, 1-7=0/0

BOT CHORD 5-6=-838/1044, 4-5=-62/68

WEBS 2-5=-369/473, 3-5=-863/1112,

2-6=-1055/1003

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- 4) Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 229 lb uplift at joint 4 and 229 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate
 - Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-6=-20

Concentrated Loads (lb)

Vert: 1=-1 Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-8=-145, 8=-145-to-2=-122, 2=-122-

to-9=-98, 9=-98-to-3=-75



June 6,2025

Page: 1



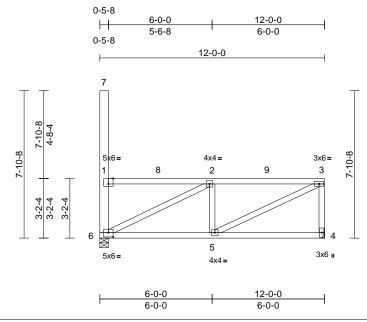
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M30 | Flat | 1 | 1 | Job Reference (optional) | 173987954 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:08 ID:2MuUHpyLhCXvgRLJTs9Z4pzEgiW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:61.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.75 | Vert(LL) | -0.03 | 5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.26 | Vert(CT) | -0.05 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.72 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 78 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 7-6:2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 8-1-10 oc

bracing

REACTIONS 4= Mechanical, 6=0-5-8 (size)

Max Horiz 6=-349 (LC 9)

Max Uplift 4=-229 (LC 10), 6=-229 (LC 9)

Max Grav 4=744 (LC 36), 6=925 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-982/670, 2-3=-1012/750, 3-4=-690/560,

1-6=-555/207, 1-7=0/0

BOT CHORD 5-6=-827/1029, 4-5=-62/68

WEBS 2-5=-369/473, 3-5=-853/1099, 2-6=-1043/991

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 229 lb uplift at joint 4 and 229 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate
 - Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-6=-20

Concentrated Loads (lb)

Vert: 1=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-8=-145, 8=-145-to-2=-122, 2=-122-

to-9=-98, 9=-98-to-3=-75



June 6,2025



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

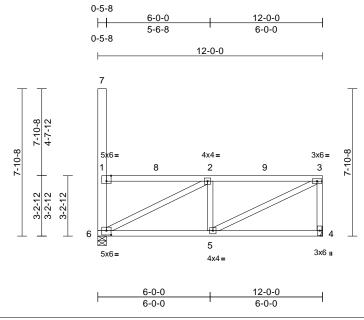
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M31 | Flat | 1 | 1 | Job Reference (optional) | 173987955 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:08 ID:AsAO?F6VdBA3kRrpk5uc6ZzEgiJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.75 | Vert(LL) | -0.03 | 5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.26 | Vert(CT) | -0.05 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.71 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 79 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 7-6:2x6 SP 2400F 2.0E

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 8-2-4 oc

bracing.

REACTIONS 4= Mechanical, 6=0-5-8 (size)

Max Horiz 6=-348 (LC 9)

Max Uplift 4=-229 (LC 10), 6=-229 (LC 9) Max Grav 4=744 (LC 36), 6=925 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=-965/659, 2-3=-997/738, 3-4=-690/560,

1-6=-555/206, 1-7=0/0

BOT CHORD 5-6=-817/1015, 4-5=-62/69 WEBS 2-5=-369/474, 3-5=-844/1087, 2-6=-1032/979

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 229 lb uplift at joint 4 and 229 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate
 - Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-6=-20

Concentrated Loads (lb)

Vert: 1=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-8=-145, 8=-145-to-2=-122, 2=-122-

to-9=-98, 9=-98-to-3=-75



June 6,2025



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

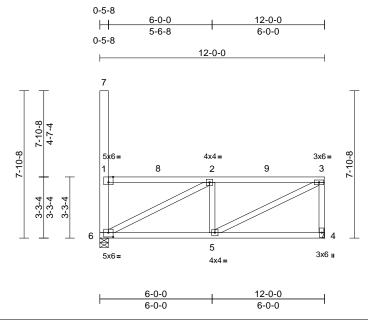
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M32 | Flat | 1 | 1 | Job Reference (optional) | 173987956 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:09 ID:nvfqn6JbJce06evr1OAqdRzEggm-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.75 | Vert(LL) | -0.02 | 5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.26 | Vert(CT) | -0.05 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.71 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 79 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E **BOT CHORD** 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 7-6:2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 8-2-15 oc

bracing.

REACTIONS 4= Mechanical, 6=0-5-8 (size)

Max Horiz 6=-347 (LC 9)

Max Uplift 4=-229 (LC 10), 6=-229 (LC 9)

Max Grav 4=744 (LC 36), 6=925 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-949/649, 2-3=-983/727, 3-4=-690/560,

1-6=-554/206, 1-7=0/0

BOT CHORD 5-6=-807/1001, 4-5=-62/69

WEBS 2-5=-369/474, 3-5=-835/1076, 2-6=-1021/968

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 229 lb uplift at joint 4 and 229 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate
 - Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-6=-20

Concentrated Loads (lb)

Vert: 1=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-8=-145, 8=-145-to-2=-122, 2=-122-

to-9=-98, 9=-98-to-3=-75



June 6,2025



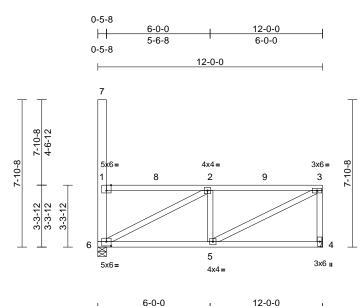
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M33 | Flat | 1 | 1 | Job Reference (optional) | 173987957 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:09 ID:y0p_5sRVj_1SwKFyABtPZlzEggb-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:61.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.75 | Vert(LL) | -0.02 | 5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.26 | Vert(CT) | -0.05 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.71 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 79 lb | FT = 12% |

6-0-0

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E **BOT CHORD** 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 7-6:2x6 SP 2400F 2.0E

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 8-3-8 oc

bracing.

REACTIONS 4= Mechanical, 6=0-5-8 (size)

Max Horiz 6=-347 (LC 11)

Max Uplift 4=-228 (LC 10), 6=-228 (LC 9)

Max Grav 4=744 (LC 36), 6=925 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-934/639, 2-3=-969/716, 3-4=-690/560,

1-6=-554/206, 1-7=0/0

BOT CHORD 5-6=-797/988, 4-5=-62/69

WEBS 2-5=-369/474, 3-5=-827/1064, 2-6=-1010/957

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.

6-0-0

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 228 lb uplift at joint 4 and 228 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-6=-20

Concentrated Loads (lb)

Vert: 1=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-8=-145, 8=-145-to-2=-122, 2=-122-

to-9=-98, 9=-98-to-3=-75



June 6,2025

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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.

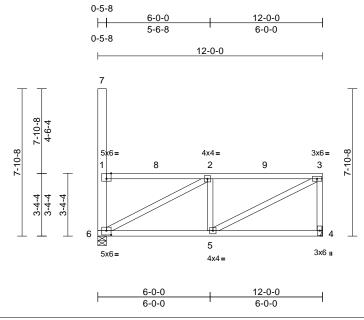
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M34 | Flat | 1 | 1 | Job Reference (optional) | 173987958 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:09 ID:0vDfE?dvBbwKEeurYrewgwzEggM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.75 | Vert(LL) | -0.02 | 5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.26 | Vert(CT) | -0.05 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.70 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 79 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E **BOT CHORD** 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 7-6:2x6 SP 2400F 2.0E

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 8-4-1 oc

bracing.

REACTIONS 4= Mechanical, 6=0-5-8 (size)

Max Horiz 6=-346 (LC 9)

Max Uplift 4=-228 (LC 10), 6=-228 (LC 9)

Max Grav 4=744 (LC 36), 6=925 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-918/629, 2-3=-956/705, 3-4=-690/560,

1-6=-554/206, 1-7=0/0

BOT CHORD 5-6=-787/974, 4-5=-62/69

WEBS 2-5=-369/474, 3-5=-818/1053, 2-6=-1000/947

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 228 lb uplift at joint 4 and 228 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-6=-20

Concentrated Loads (lb)

Vert: 1=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-8=-145, 8=-145-to-2=-122, 2=-122-

to-9=-98, 9=-98-to-3=-75



June 6,2025



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

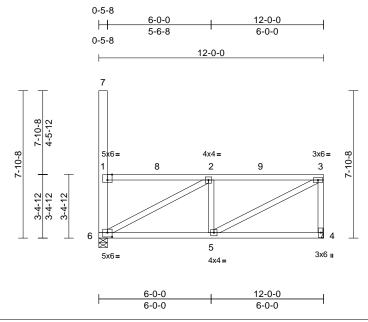
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M35 | Flat | 1 | 1 | Job Reference (optional) | 173987959 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:09 ID:B0OpYllpb_Jm2KEyhfKVdEzEggB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.75 | Vert(LL) | -0.02 | 5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.25 | Vert(CT) | -0.05 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.70 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 79 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E **BOT CHORD** 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 7-6:2x6 SP 2400F 2.0E

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 8-4-10 oc

bracing.

REACTIONS 4= Mechanical, 6=0-5-8 (size)

Max Horiz 6=-346 (LC 9)

Max Uplift 4=-228 (LC 10), 6=-228 (LC 9)

Max Grav 4=744 (LC 36), 6=926 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-903/620, 2-3=-944/695, 3-4=-690/560,

1-6=-555/205, 1-7=0/0

BOT CHORD 5-6=-778/962, 4-5=-62/69

WEBS 2-5=-369/474, 3-5=-810/1043, 2-6=-990/936

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 228 lb uplift at joint 4 and 228 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate
 - Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-6=-20

Concentrated Loads (lb)

Vert: 1=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-8=-145, 8=-145-to-2=-122, 2=-122-

to-9=-101, 9=-98-to-3=-76



June 6,2025



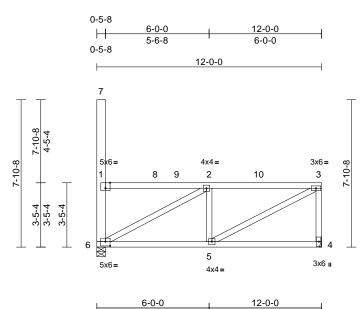
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M36 | Flat | 1 | 1 | Job Reference (optional) | 173987960 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:10 ID:Ngcq_8I1?o_NyFAbqce2ykzEgfU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:61.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.74 | Vert(LL) | -0.02 | 5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.25 | Vert(CT) | -0.04 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.70 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 80 lb | FT = 12% |

6-0-0

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E **BOT CHORD** 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 7-6:2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

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

bracing.

REACTIONS 4= Mechanical, 6=0-5-8 (size)

Max Horiz 6=-345 (LC 11)

Max Uplift 4=-228 (LC 10), 6=-228 (LC 9)

Max Grav 4=766 (LC 36), 6=929 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-889/610, 2-3=-937/685, 3-4=-712/560,

1-6=-552/205, 1-7=0/0

BOT CHORD 5-6=-769/956, 4-5=-62/69

WEBS 2-5=-371/474, 3-5=-802/1038, 2-6=-988/926

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.

6-0-0

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 228 lb uplift at joint 4 and 228 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate
 - Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-6=-20

Concentrated Loads (lb)

Vert: 1=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-8=-145, 8=-145-to-9=-137, 9=-131to-2=-121, 2=-121-to-10=-106, 10=-104-to-3=-85



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June 6,2025



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

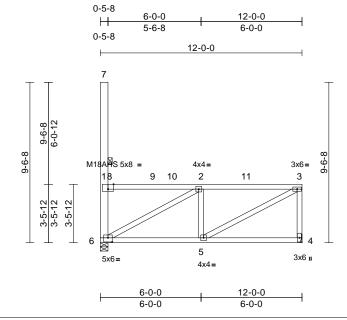
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M37 | Flat | 1 | 1 | Job Reference (optional) | 173987961 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:10 ID:T3odse12X8GfLuk57uM65_zEgot-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:68.5

Plate Offsets (X, Y): [1:0-4-0,Edge], [6:0-3-0,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.77 | Vert(LL) | -0.02 | 5 | >999 | 240 | M18AHS | 186/179 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.26 | Vert(CT) | -0.05 | 4-5 | >999 | 180 | MT20 | 244/190 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.79 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 84 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 7-6:2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

Except:

6-0-0 oc bracing: 1-6 7-0-0 oc bracing: 1-7

BOT CHORD Rigid ceiling directly applied or 7-9-8 oc

bracing.

WEBS 1 Row at midpt

REACTIONS 4= Mechanical, 6=0-5-8 (size)

Max Horiz 6=-430 (LC 9)

Max Uplift 4=-291 (LC 10), 6=-291 (LC 9) Max Grav 4=810 (LC 18), 6=934 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-1281/870, 2-3=-1037/817,

3-4=-753/635, 1-6=-538/220, 1-7=0/0 **BOT CHORD**

5-6=-903/1129, 4-5=-63/69 **WEBS** 2-5=-465/556, 3-5=-956/1206,

2-6=-1098/1135

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16: Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10. Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 6) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 291 lb uplift at joint 4 and 291 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-6=-20

Concentrated Loads (lb) Vert: 1=-1, 3=0

Trapezoidal Loads (lb/ft)

Vert: 1=-160-to-8=-155, 8=-156-to-9=-145, 9=-145to-10=-140, 10=-137-to-2=-128, 2=-128-to-11=-114,

11=-111-to-3=-92



June 6,2025



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

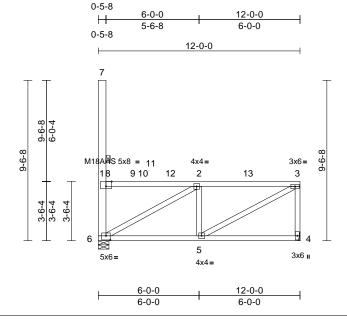
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M38 | Flat | 1 | 1 | Job Reference (optional) | 173987962 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:10 ID:qH7xT9IrLv1X_GPJPVIH_dzEgoX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:68.5

Plate Offsets (X, Y): [1:0-4-0,Edge], [6:0-3-0,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.76 | Vert(LL) | -0.03 | 5 | >999 | 240 | M18AHS | 186/179 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.26 | Vert(CT) | -0.05 | 4-5 | >999 | 180 | MT20 | 244/190 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.82 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 84 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 7-6:2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

Except:

6-0-0 oc bracing: 1-6 7-2-0 oc bracing: 1-7

BOT CHORD Rigid ceiling directly applied or 7-9-15 oc

bracing.

WEBS 1 Row at midpt

REACTIONS 4= Mechanical, 6=0-7-9 (size)

Max Horiz 6=-430 (LC 11)

Max Uplift 4=-291 (LC 10), 6=-291 (LC 9)

Max Grav 4=859 (LC 36), 6=952 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1261/858, 2-3=-1068/806, 3-4=-805/635, 1-6=-524/220, 1-7=0/0

BOT CHORD 5-6=-892/1115, 4-5=-63/70

WEBS 2-5=-465/556, 3-5=-947/1194,

2-6=-1136/1123

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16: Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10. Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 6) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 291 lb uplift at joint 4 and 291 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-6=-20

Concentrated Loads (lb)

Vert: 1=-1, 3=0 Trapezoidal Loads (lb/ft)

Vert: 1=-106-to-8=-103, 8=-116-to-9=-183, 9=-158-

to-10=-159, 10=-159-to-11=-157, 11=-157-

to-12=-150, 12=-149-to-2=-138, 2=-138-to-13=-120,

13=-120-to-3=-102



June 6,2025



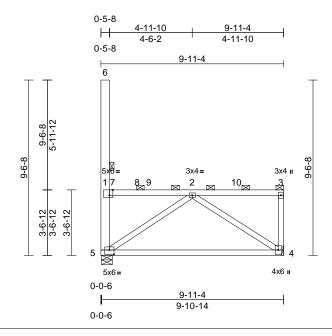
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M39 | Flat | 1 | 1 | Job Reference (optional) | 173987963 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:10 ID:TbrT_GRNXbYqQ6Kd61z5T9zEgoL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:62.7

Plate Offsets (X, Y): [1:0-2-4,Edge], [5:0-3-0,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.80 | Vert(LL) | 0.02 | 4-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.47 | Vert(CT) | -0.25 | 4-5 | >454 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.61 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 71 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals. Except: 6-0-0 oc bracing: 1-5

7-4-0 oc bracing: 1-6 BOT CHORD Rigid ceiling directly applied or 7-9-13 oc

bracing.

WEBS 1 Row at midpt 1-6

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

Max Horiz 5=-429 (LC 9)

Max Uplift 4=-312 (LC 10), 5=-312 (LC 9)

Max Grav 4=779 (LC 36), 5=834 (LC 33)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1254/817, 2-3=-100/72, 3-4=-407/172,

1-5=-469/204, 1-6=0/0

BOT CHORD 4-5=-826/932 2-4=-1030/948, 2-5=-810/1108

WEBS NOTES

FORCES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16: Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10. Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 312 lb uplift at joint 4 and 312 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20

Concentrated Loads (lb)

Vert: 1=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-96-to-7=-120, 7=-121-to-8=-179, 8=-157to-9=-158, 9=-158-to-2=-143, 2=-143-to-10=-127, 10=-127-to-3=-111

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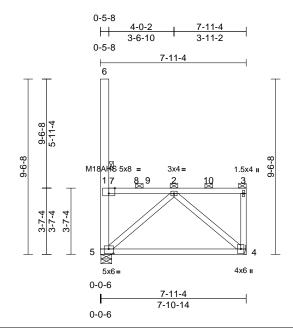


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M40 | Flat | 1 | 1 | Job Reference (optional) | 173987964 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:11 ID:XUF88Ocn_CRijQzWVgkcaKzEgo6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:62.7

Plate Offsets (X, Y): [1:0-4-0,Edge], [5:0-3-0,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.73 | Vert(LL) | n/a | - | n/a | 999 | M18AHS | 186/179 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.42 | Vert(CT) | -0.17 | 4-5 | >529 | 180 | MT20 | 244/190 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.45 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 63 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1 6F BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals. Except: 6-0-0 oc bracing: 1-5

7-6-0 oc bracing: 1-6 BOT CHORD Rigid ceiling directly applied or 8-5-0 oc

bracing.

1 Row at midpt 1-6

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

Max Horiz 5=429 (LC 12)

Max Uplift 4=-354 (LC 10), 5=-354 (LC 9) Max Grav 4=708 (LC 18), 5=721 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1146/791, 2-3=-64/69, 3-4=-377/150,

1-5=-422/256, 1-6=0/0 **BOT CHORD** 4-5=-724/829

WEBS 2-4=-1036/903, 2-5=-621/963

NOTES

WEBS

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16: Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10. Lu=50-0-0
- 4) Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation about its center
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 354 lb uplift at joint 4 and 354 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20

Trapezoidal Loads (lb/ft)

Vert: 1=-92-to-7=-117, 7=-118-to-8=-175, 8=-154to-9=-155, 9=-155-to-2=-145, 2=-145-to-10=-133, 10=-133-to-3=-121



June 6,2025



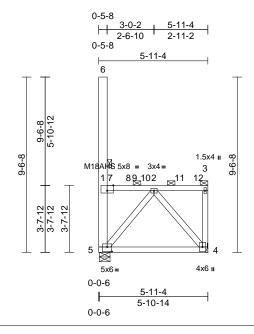
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M41 | Flat | 1 | 1 | Job Reference (optional) | 173987965 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:11 ID:NGnzpKwXZO2Nh0EGpMgxy5zEgmQ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:62.7

Plate Offsets (X, Y): [1:0-4-0,Edge], [5:0-3-0,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.72 | Vert(LL) | n/a | - | n/a | 999 | M18AHS | 186/179 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.22 | Vert(CT) | -0.05 | 4-5 | >999 | 180 | MT20 | 244/190 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.37 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 55 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1 6F BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F

BRACING

TOP CHORD 2-0-0 oc purlins: 1-3, 1-6, except end

verticals. Except: 6-0-0 oc bracing: 1-5

7-8-0 oc bracing: 1-6 BOT CHORD Rigid ceiling directly applied or 9-3-2 oc

bracing.

WEBS 1-6 1 Row at midpt

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

Max Horiz 5=428 (LC 10)

Max Uplift 4=-438 (LC 10), 5=-438 (LC 9)

Max Grav 4=670 (LC 18), 5=661 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-1098/754, 2-3=-65/70, 3-4=-359/139,

1-5=-365/303, 1-6=0/0

BOT CHORD 4-5=-628/774 WEBS 2-4=-1133/913, 2-5=-613/942

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16: Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10. Lu=50-0-0
- 4) Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation about its center
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 438 lb uplift at joint 4 and 438 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20

Concentrated Loads (lb)

Vert: 3=-17

Trapezoidal Loads (lb/ft)

Vert: 1=-92-to-7=-116, 7=-117-to-8=-158, 8=-158to-9=-173, 9=-152-to-10=-153, 10=-152-to-2=-150, 2=-150-to-11=-140, 11=-140-to-12=-134, 12=-100to-3=-99



June 6,2025



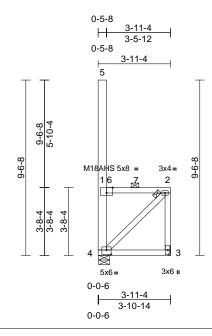
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M42 | Flat | 1 | 1 | Job Reference (optional) | 173987966 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:11 ID:YNx7653QzmQpViaNzANWuQzEgmF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:62.7

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.85 | Vert(LL) | n/a | - | n/a | 999 | M18AHS | 186/179 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.08 | Vert(CT) | -0.01 | 3-4 | >999 | 180 | MT20 | 244/190 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.45 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 44 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 5-4:2x6 SP 2400F

BRACING

TOP CHORD 2-0-0 oc purlins: 1-2, 1-5, except end

verticals

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

bracing.

REACTIONS (size) 3= Mechanical, 4=0-7-0

Max Horiz 4=427 (LC 10)

Max Uplift 3=-638 (LC 10), 4=-638 (LC 9)

Max Grav 3=765 (LC 18), 4=699 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1122/786, 2-3=-1269/988,

1-4=-481/300, 1-5=0/0

BOT CHORD 3-4=-65/71

WEBS

2-4=-1149/1620

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.

- 6) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 638 lb uplift at joint 3 and 638 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 3-4=-20

Concentrated Loads (lb) Vert: 1=0, 2=-44, 7=-13

Trapezoidal Loads (lb/ft)

Vert: 1=-92-to-6=-115, 6=-116-to-7=-177, 7=-174-

to-2=-171



June 6,2025



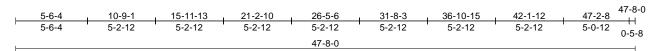
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

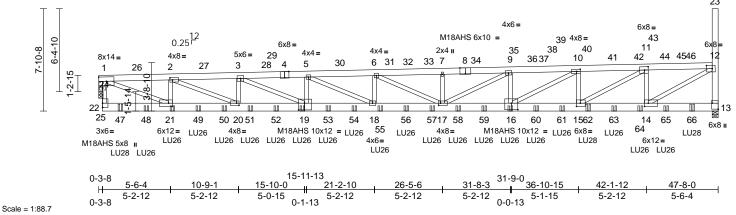
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------------|-----|-----|--------------------------|-----------|
| 2503401-A | M43G | Monopitch Girder | 1 | 3 | Job Reference (optional) | 173987967 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:12 ID:ILYmHcms8RrKkJtMAYMF3hzEfWa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





[2:0-2-4,0-2-0], [4:0-4-0,Edge], [8:0-5-0,Edge], [10:0-3-7,0-2-0], [11:0-3-7,0-3-0], [12:0-5-4,0-3-0], [13:Edge,0-5-8], [14:0-3-8,0-3-0], [15:0-3-8,0-3-0], [16:0-6-0,0-6-0], Plate Offsets (X, Y): [17:0-1-12,0-2-0], [19:0-5-8,0-6-4], [20:0-2-4,0-2-0], [21:0-3-8,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|-----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.91 | Vert(LL) | -1.30 | 17-18 | >436 | 240 | M18AHS | 186/179 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.83 | Vert(CT) | -2.19 | 17-18 | >259 | 180 | MT20 | 244/190 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.93 | Horz(CT) | 0.12 | 13 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 1124 lb | FT = 12% |

LUMBER TOP CHORD 2x6 SP 2400F 2.0E 2x8 SP M 23 **BOT CHORD**

2x4 SP No.2 *Except* 21-1:2x4 SP 2400F WEBS 2.0E, 20-2.15-11.14-12:2x4 SP 1650F 1.6E.

23-13:2x6 SP 2400F 2.0E

OTHERS 2x4 SP No.2

BRACING

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or 3-8-2 oc purlins, except end verticals.

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

bracing. REACTIONS

(size) 13=0-5-8, 25=0-4-0

Max Horiz 25=322 (LC 10) Max Uplift 13=-3792 (LC 13), 25=-3082 (LC

13)

13=10160 (LC 18), 25=10355 (LC

26)

(lb) - Maximum Compression/Maximum

FORCES

Tension

22-24=-336/1028, 1-24=-336/1028 1-2=-21615/7630, 2-3=-35327/12398,

3-5=-43234/15208, 5-6=-46286/16406, 6-7=-44408/15937, 7-9=-44407/15942,

9-10=-38555/14163. 10-11=-29178/11182 11-12=-16169/6850, 12-13=-9434/3790,

12-23=0/0

BOT CHORD 21-22=-828/1694, 20-21=-7549/21607,

18-20=-14944/43331, 17-18=-16009/46273, 15-17=-13777/38627, 14-15=-6427/15931,

13-14=-323/519

WFBS 1-21=-7450/21718, 2-21=-6751/2414, 2-20=-5208/14995, 3-20=-4268/1595, 3-19=-3108/8763, 5-19=-1848/784, 5-18=-1274/3270, 6-18=-207/641,

6-17=-2104/617, 7-17=-373/222, 9-17=-2111/6577, 9-16=-3408/1173 10-16=-3523/10821, 10-15=-5656/1944,

11-15=-5136/15388, 11-14=-7891/2641, 12-14=-7129/18082, 1-25=-10734/3684

NOTES

3-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 oc, 2x6 - 2 rows staggered at 0-6-0 oc. Bottom chords connected as follows: 2x8 - 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 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=48ft; eave=6ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 0-5-4 to 5-5-4, Exterior (2) 5-5-4 to 42-5-4, Corner (3) 42-5-4 to 47-5-4 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

TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated. Plates checked for a plus or minus 5 degree rotation
- about its center.
- Bearing at joint(s) 25 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 3792 lb uplift at joint 13 and 3082 lb uplift at joint 25.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 13) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.



Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Ply Job Truss Truss Type Qty Discover Pet Spa 173987967 3 2503401-A M43G Monopitch Girder 1 Job Reference (optional)

Lumber Specialties, Dyersville, IA - 52040,

to front face of bottom chord.

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:12 ID:ILYmHcms8RrKkJtMAYMF3hzEfWa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 2

- 14) Use Simpson Strong-Tie LU28 (8-10dx1 1/2 Girder. 6-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 44-0-0 oc max. starting at 1-8-0 from the left end to 45-8-0 to connect truss(es) to front face of bottom
- chord. 15) Use Simpson Strong-Tie LU26 (6-16d Girder, 4-10dx1 1/2 Truss) or equivalent spaced at 4-0-0 oc max. starting at 3-8-0 from the left end to 39-8-0 to connect truss(es)
- 16) Use Simpson Strong-Tie LU28 (8-16d Girder, 6-10dx1 1/2 Truss) or equivalent at 37-8-0 from the left end to connect truss(es) to front face of bottom chord.
- 17) Use Simpson Strong-Tie LU26 (6-10d Girder, 4-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 41-8-0 from the left end to 43-8-0 to connect truss(es) to front face of bottom chord.
- 18) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-35=-61, 13-22=-20

Concentrated Loads (lb)

Vert: 1=0, 21=-711 (F), 19=-711 (F), 9=0, 16=-711 (F), 47=-715 (F), 48=-711 (F), 49=-711 (F), 50=-711 (F), 51=-711 (F), 52=-711 (F), 53=-711 (F), 54=-711 (F), 55=-711 (F), 56=-711 (F), 57=-711 (F), 58=-711 (F), 59=-711 (F), 60=-733 (F), 61=-771 (F), 62=-826 (F), 63=-705 (F), 64=-572 (F), 65=-436 (F), 66=-363

Trapezoidal Loads (lb/ft)

Vert: 35=-61-to-36=-63, 36=-64-to-37=-66, 37=-66to-38=-67, 38=-67-to-39=-68, 39=-68-to-10=-71, 10=-71-to-40=-73, 40=-73-to-41=-78, 41=-78to-42=-82, 42=-83-to-11=-84, 11=-84-to-43=-85, 43=-86-to-44=-88, 44=-89-to-45=-92, 45=-93to-46=-95, 46=-97-to-12=-103



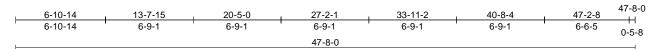
June 6,2025



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M44 | Monopitch | 20 | 1 | Job Reference (optional) | 173987968 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:13 ID:K2ZpJcdTh4wDI?eWTl81KOzEg4v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



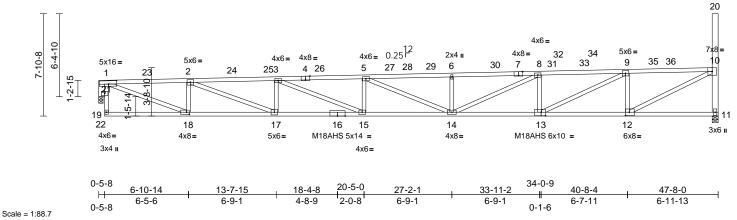


Plate Offsets (X, Y): [1:0-7-8,0-3-0], [4:0-4-0,Edge], [7:0-4-0,Edge], [12:0-3-8,0-3-0], [13:0-4-0,0-3-4], [18:0-2-8,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.99 | Vert(LL) | -0.86 | 14-15 | >663 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.80 | Vert(CT) | -1.86 | 14-15 | >304 | 180 | M18AHS | 186/179 |
| TCDL | 15.0 | Rep Stress Incr | Yes | WB | 0.85 | Horz(CT) | 0.16 | 11 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 255 lb | FT = 12% |

LUMBER

2x4 DF-N 2850F 2.3E *Except* 1-4:2x4 SP TOP CHORD

2400F 2.0E

BOT CHORD 2x4 SP 2400F 2.0E *Except* 11-13:2x4 SP

1650F 1.6E WFBS

2x4 SP No.2 *Except*

19-1,10-12,1-18,13-9,14-8:2x4 SP 1650F

1.6E, 20-11:2x6 SP 2400F 2.0E

OTHERS 2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 5-1-6 oc

bracing.

REACTIONS (size) 11=0-5-8, 22=0-4-0

Max Horiz 22=324 (LC 10)

Max Uplift 11=-178 (LC 13), 22=-201 (LC 13) Max Grav 11=2541 (LC 26), 22=2121 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

19-21=0/82, 1-21=0/82, 1-2=-4942/1760, 2-3=-7769/2656, 3-5=-8898/3031,

5-6=-8569/2952, 6-8=-8569/2960, 8-9=-6903/2475, 9-10=-4269/1686,

10-11=-2471/731, 10-20=0/0

18-19=-384/484, 17-18=-1645/4936, 15-17=-2406/7762, 14-15=-2658/8891,

12-14=-2073/6940, 11-12=-121/246

2-18=-1632/629, 3-17=-945/422,

2-17=-952/3026, 5-15=-324/229,

3-15=-396/1218, 6-14=-479/269,

5-14=-487/204, 8-13=-1212/522 9-12=-1976/686, 10-12=-1333/4651,

1-18=-1492/4798. 9-13=-992/3028.

8-14=-630/1844. 1-22=-2336/733

NOTES

WEBS

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft: L=48ft: eave=6ft: Cat. II: Exp C: Enclosed: MWFRS (directional) and C-C Corner (3) 0-7-4 to 5-7-4. Exterior (2) 5-7-4 to 42-5-4, Corner (3) 42-5-4 to 47-5-4 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 6) Plates checked for a plus or minus 5 degree rotation about its center.
- Bearing at joint(s) 22 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 178 lb uplift at joint 11 and 201 lb uplift at joint 22.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-32=-61, 11-19=-20 Trapezoidal Loads (lb/ft)

Vert: 32=-59-to-33=-66, 33=-66-to-34=-70, 34=-73to-9=-86, 9=-89-to-35=-104, 35=-107-to-36=-119, 36=-119-to-10=-148





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

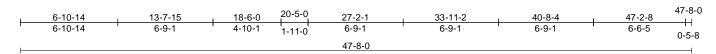


Qty Job Truss Truss Type Ply Discover Pet Spa 173987969 2503401-A M44G 2 2 Monopitch Girder Job Reference (optional)

Lumber Specialties, Dyersville, IA - 52040,

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:14 ID:7oFg7Y_HB4sJ42O8ugWqlvzEfw7-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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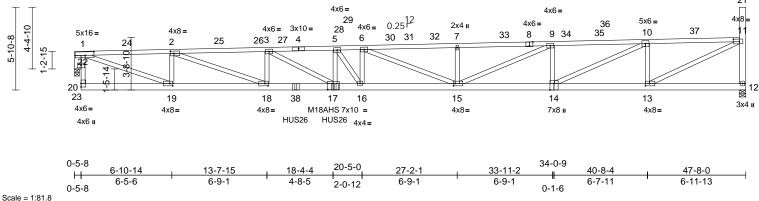


Plate Offsets (X, Y): [1:0-7-8,0-3-0], [2:0-3-0,0-2-0], [8:0-3-0,0-2-0], [8:0-3-0,Edge], [11:0-5-0,0-2-4], [13:0-3-8,0-2-0], [14:0-5-8,Edge], [15:0-1-8,0-2-0], [17:0-4-12,0-5-4], [18:0-2-12,0-2-0], [19:0-2-8,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.92 | Vert(LL) | -0.72 | 15-16 | >789 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.81 | Vert(CT) | -1.67 | 15-16 | >340 | 180 | M18AHS | 186/179 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.97 | Horz(CT) | 0.08 | 12 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 586 lb | FT = 12% |

LUMBER

2x4 DF-N 2850F 2.3E *Except* 8-11:2x4 SP TOP CHORD

2400F 2.0E

BOT CHORD 2x6 SP 2400F 2.0E

WEBS 2x4 SP No.2 *Except* 11-13,1-19,14-10:2x4 SP 1650F 1.6E, 21-12:2x6 SP 2400F 2.0E

OTHERS 2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-11-10 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS 12=0-5-8, 23=0-4-0 (size)

Max Horiz 23=219 (LC 55)

Max Uplift 12=-219 (LC 13), 23=-243 (LC 13) Max Grav 12=3577 (LC 26), 23=3982 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

20-22=-4/171, 1-22=-4/171,

1-2=-10013/1826, 2-3=-17447/2819, 3-5=-20098/3188, 5-6=-19257/3250, 6-7=-16017/3044, 7-9=-16017/3052 9-10=-11623/2452, 10-11=-6525/1541,

11-12=-3467/733, 11-21=0/0

BOT CHORD

19-20=-359/956, 18-19=-1786/10007, 16-18=-3060/20037, 15-16=-3099/19253,

13-15=-2224/11704, 12-13=-15/158 **WEBS** 2-19=-3417/668, 3-18=-2004/416,

2-18=-1052/7925, 6-16=-19/1162, 7-15=-488/276, 6-15=-3513/265,

9-14=-2331/535, 10-13=-3061/719 11-13=-1409/7096, 1-19=-1611/9672, 10-14=-1055/5701, 9-15=-692/4727,

5-17=-208/1194, 3-17=-415/3043, 5-16=-1549/106. 1-23=-4353/773

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 0-4-0 oc. 2x6 - 2 rows staggered at 0-9-0 oc.

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 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=48ft; eave=6ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 0-7-4 to 5-7-4, Exterior (2) 5-7-4 to 42-5-4, Corner (3) 42-5-4 to 47-5-4 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Bearing at joint(s) 23 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 219 lb uplift at joint 12 and 243 lb uplift at joint 23.

- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 13) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 14) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-9-8 oc max. starting at 15-8-8 from the left end to 18-6-0 to connect truss(es) to back face of bottom chord.
- 15) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-27=-61, 4-27=-104, 5-28=-70, 28-36=-61, 12-20=-20

Concentrated Loads (lb)



June 6,2025

Continued on page 2

WARNING - Ve - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job Truss Truss Type Qty Ply Discover Pet Spa 173987969 2 2503401-A M44G Monopitch Girder 2 Job Reference (optional)

Lumber Specialties, Dyersville, IA - 52040,

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:14 $ID: 7oFg7Y_HB4sJ42O8ugWqIvzEfw7-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$

Page: 2

Vert: 17=-1736 (B), 5=-8, 38=-1103 (B) Trapezoidal Loads (lb/ft) Vert: 4=-71-to-5=-73, 36=-61-to-10=-87, 10=-87to-37=-117, 37=-117-to-11=-147



June 6,2025

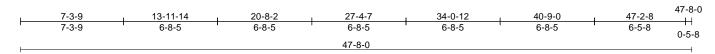






| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M45 | Monopitch | 3 | 1 | Job Reference (optional) | 173987970 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:14 ID:pvP2cO5E?sgQpNTS?Vv5dJzEgAm-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



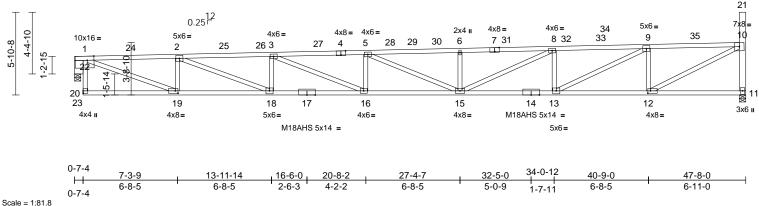


Plate Offsets (X, Y): [1:0-5-12,Edge], [4:0-4-0,Edge], [7:0-4-0,Edge], [12:0-2-4,0-2-0], [19:0-2-4,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.94 | Vert(LL) | -0.82 | 15-16 | >692 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.80 | Vert(CT) | -1.80 | 15-16 | >315 | 180 | M18AHS | 186/179 |
| TCDL | 15.0 | Rep Stress Incr | Yes | WB | 0.78 | Horz(CT) | 0.17 | 11 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 249 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 DF-N 2850F 2 3F BOT CHORD 2x4 SP 2400F 2.0E **WEBS** 2x4 SP No.2 *Except*

20-1,10-12,19-1,15-8,13-9:2x4 SP 1650F

1.6E, 21-11:2x6 SP 2400F 2.0E

OTHERS 2x8 SP M 23

BRACING

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

BOT CHORD Rigid ceiling directly applied or 5-0-12 oc

bracing.

REACTIONS 11=0-5-8, 23=0-5-4 (size)

Max Horiz 23=222 (LC 10)

Max Uplift 11=-185 (LC 13), 23=-192 (LC 13) Max Grav 11=2459 (LC 26), 23=2102 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

Tension

20-22=0/86, 1-22=0/86, 1-2=-5099/1711,

TOP CHORD 2-3=-7788/2541, 3-5=-8829/2864,

5-6=-8446/2750, 6-8=-8446/2757 8-9=-6803/2262, 9-10=-4134/1439, 10-11=-2388/704, 10-21=0/0

19-20=-326/551, 18-19=-1664/5094, BOT CHORD 16-18=-2438/7781, 15-16=-2711/8822,

13-15=-2013/6797, 12-13=-1149/4125,

11-12=-1/116

WEBS 10-12=-1304/4518, 2-19=-1598/612,

1-19=-1480/4853, 2-18=-882/2883, 3-18=-905/397, 3-16=-342/1124, 5-16=-295/210, 5-15=-527/173, 6-15=-475/266, 8-15=-597/1854

8-13=-1217/505, 9-13=-963/3054

9-12=-1932/682, 1-23=-2412/748

NOTES

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=48ft; eave=6ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 0-9-0 to 5-9-0, Exterior (2) 5-9-0 to 42-5-4. Corner (3) 42-5-4 to 47-5-4 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially
- Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Bearing at joint(s) 23 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 185 lb uplift at joint 11 and 192 lb uplift at joint 23.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-34=-61, 11-20=-20

Trapezoidal Loads (lb/ft)

Vert: 34=-61-to-9=-84, 9=-84-to-35=-109, 35=-109to-10=-135



June 6,2025



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

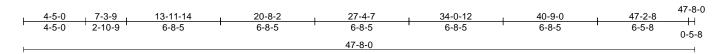


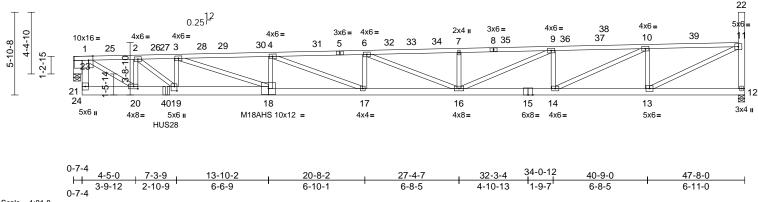
Qty Job Truss Truss Type Ply Discover Pet Spa 173987971 2503401-A M45G 2 2 Monopitch Girder Job Reference (optional)

Lumber Specialties, Dyersville, IA - 52040,

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:15 ID:gfjaXGfHXVrZijW8nyiG4XzEg69-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:81.8

Plate Offsets (X, Y): [1:0-3-12,Edge], [19:0-3-12,0-2-4], [20:0-3-8,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.91 | Vert(LL) | -0.59 | 16-17 | >957 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.44 | Vert(CT) | -1.36 | 16-17 | >417 | 180 | M18AHS | 186/179 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.85 | Horz(CT) | 0.02 | 12 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 613 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1 6F

BOT CHORD 2x6 SP 2400F 2.0E *Except* 18-21:2x8 SP M

WEBS 2x4 SP No.2 *Except* 21-1,22-12:2x6 SP

2400F 2.0E 2x8 SP M 23

OTHERS BRACING

TOP CHORD

TOP CHORD

Structural wood sheathing directly applied or 3-6-5 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS 12=0-5-8, 24=0-5-13 (size)

> Max Horiz 24=218 (LC 10) Max Uplift 12=-156 (LC 13)

Max Grav 12=2822 (LC 26), 24=4551 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

Tension

21-23=-8/341, 1-23=-8/341, 1-2=-7388/697,

2-3=-11015/1328, 3-4=-12269/2191, 4-6=-12385/2648, 6-7=-10970/2592 7-9=-10970/2599, 9-10=-8489/2180

10-11=-4945/1397, 11-12=-2718/669, 11-22=0/0

BOT CHORD 20-21=-262/1543, 19-20=-691/7381,

17-19=-2125/12289, 16-17=-2501/12377, 14-16=-1932/8483, 13-14=-1110/4936,

12-13=-15/144

WFBS 10-13=-2306/654, 3-19=-1011/748,

4-18=-523/688, 3-18=-1704/1341, 6-17=-29/475, 4-17=-1084/348, 7-16=-468/265, 6-16=-1574/107 9-14=-1566/468, 9-16=-517/2760, 10-14=-912/3998, 11-13=-1253/5361, 2-20=-3496/324. 1-20=-587/6941.

2-19=-817/4706, 1-24=-5238/276

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-5-0 oc, 2x6 - 2 rows staggered at 0-9-0

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 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=48ft; eave=6ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 0-10-0 to 5-10-0, Exterior (2) 5-10-0 to 42-5-4, Corner (3) 42-5-4 to 47-5-4 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Bearing at joint(s) 24 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 156 lb uplift at joint

- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 14) Use Simpson Strong-Tie HUS28 (22-10d Girder, 8-10d Truss) or equivalent at 6-7-0 from the left end to connect truss(es) to back face of bottom chord.
- 15) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-27=-145, 27-28=-88, 28-38=-61, 12-21=-20 Concentrated Loads (lb)

Vert: 27=-6, 40=-2248 (B)



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Continued on page 2 WARNING - Ve

NOTES

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Ply Qty Job Truss Truss Type Discover Pet Spa 173987971 2 2503401-A M45G Monopitch Girder 2 Job Reference (optional)

Lumber Specialties, Dyersville, IA - 52040,

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:15

Page: 2

Trapezoidal Loads (lb/ft) Vert: 38=-61-to-10=-85, 10=-85-to-39=-111, 39=-111to-11=-138



June 6,2025







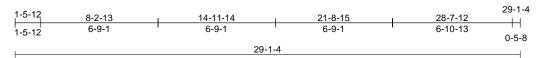


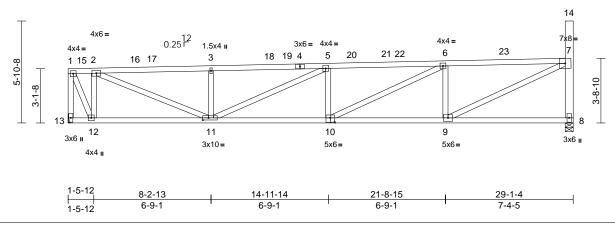
Qty Ply Job Truss Truss Type Discover Pet Spa 173987972 2503401-A M46 2 1 Monopitch Job Reference (optional)

Lumber Specialties, Dyersville, IA - 52040,

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:15 ID:35GjH_BtkoXh9vLS1pLMc_zEfx9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:66.4

Plate Offsets (X, Y): [10:0-3-0,0-3-0], [11:0-4-0,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.90 | Vert(LL) | -0.16 | 10-11 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.57 | Vert(CT) | -0.36 | 10-11 | >957 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | Yes | WB | 0.85 | Horz(CT) | 0.06 | 8 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 164 lb | FT = 12% |

LUMBER

2x4 SP 1650F 1.6E *Except* 4-7:2x4 DF-N TOP CHORD

2850F 2.3E

BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 14-8:2x6 SP 2400F

2.0E, 10-6,11-5,9-7:2x4 SP 1650F 1.6E

BRACING

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

BOT CHORD Rigid ceiling directly applied or 6-3-6 oc

bracing.

REACTIONS (size) 8=0-5-8, 13= Mechanical

Max Horiz 13=246 (LC 10)

Max Uplift 8=-184 (LC 10), 13=-162 (LC 9) Max Grav 8=1655 (LC 26), 13=1357 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 7-8=-1584/612, 7-14=0/0, 1-2=-692/301,

> 2-3=-2738/1107, 3-5=-2739/1116, 5-6=-3251/1369, 6-7=-2565/1114,

1-13=-1378/503

BOT CHORD 12-13=-441/332, 11-12=-680/773,

9-11=-1398/3254, 8-9=-6/126

WEBS 2-12=-1339/690, 3-11=-486/332

2-11=-923/2214, 6-9=-1037/553, 6-10=-481/910, 5-11=-624/278,

5-10=-271/291, 1-12=-668/1608,

7-9=-1067/2709

NOTES

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=29ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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 DOI = 1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Provide adequate drainage to prevent water ponding.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 162 lb uplift at joint 13 and 184 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 8-13=-20, 1-22=-61

Concentrated Loads (lb)

Vert: 1=-18

Trapezoidal Loads (lb/ft)



Vert: 22=-61-to-6=-83, 6=-83-to-23=-113, 23=-113-

to-7=-145

June 6,2025

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

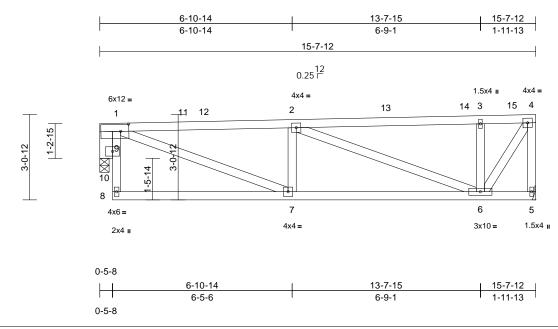
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M47 | Monopitch | 2 | 1 | Job Reference (optional) | 173987973 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:16 ID:isxOfSv4v2moWWfDkBxCjLzEfxV-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:41.3

Plate Offsets (X, Y): [1:0-3-8,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.89 | Vert(LL) | 0.04 | 6-7 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.30 | Vert(CT) | -0.09 | 6-7 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.61 | Horz(CT) | 0.02 | 5 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 86 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1 6F 2x4 SP 1650F 1.6E BOT CHORD **WEBS** 2x4 SP No.2 **OTHERS** 2x6 SP 2400F 2.0E

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

4-5-15 oc purlins, except end verticals. Rigid ceiling directly applied or 8-10-1 oc

REACTIONS (size) 5= Mechanical, 10=0-4-0

Max Horiz 10=44 (LC 13)

Max Uplift 5=-85 (LC 10), 10=-124 (LC 9)

Max Grav 5=737 (LC 2), 10=652 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

8-9=0/64, 1-9=0/64, 1-2=-1143/681,

2-3=-517/297, 3-4=-516/306

BOT CHORD 7-8=-133/188, 6-7=-700/1138, 5-6=0/0

WEBS 2-7=-244/323, 3-6=-429/370, 2-6=-672/423,

1-7=-621/1028, 4-5=-752/369, 4-6=-550/925,

1-10=-741/462

NOTES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- 4) Provide adequate drainage to prevent water ponding.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 10 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 85 lb uplift at joint 5 and 124 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-15=-61, 4-15=-132, 5-8=-20



June 6,2025



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

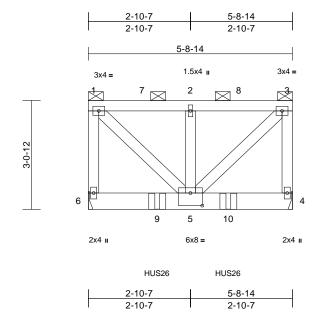
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|-------------|-----|-----|--------------------------|-----------|
| 2503401-A | M48G | Flat Girder | 1 | 1 | Job Reference (optional) | 173987974 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:16 ID:eWaafy8?Rt96IRctLgnf?MzEfxC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:32.4

Plate Offsets (X, Y): [5:0-4-0,0-4-4]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.40 | Vert(LL) | 0.01 | 4-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.18 | Vert(CT) | -0.02 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.27 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 42 lb | FT = 12% |

LUMBER

2x4 SP 1650F 1 6F TOP CHORD BOT CHORD 2x6 SP 2400F 2.0E **WEBS** 2x4 SP No.2

BRACING

TOP CHORD 2-0-0 oc purlins: 1-3, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 4= Mechanical, 6= Mechanical

Max Horiz 6=-97 (LC 9)

Max Uplift 4=-32 (LC 10), 6=-33 (LC 9)

Max Grav 4=1123 (LC 1), 6=1082 (LC 1) **FORCES**

(lb) - Maximum Compression/Maximum Tension

1-6=-892/222, 1-2=-770/138, 2-3=-770/138,

TOP CHORD

3-4=-898/216

BOT CHORD 5-6=-144/148, 4-5=-52/56

WEBS 1-5=-244/1081, 2-5=-505/163, 3-5=-244/1081

NOTES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- Plates checked for a plus or minus 5 degree rotation
- Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 6 and 32 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or
- 12) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-11-4 from the left end to 3-11-4 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-6=-20 Concentrated Loads (lb)

Vert: 3=-3, 9=-717 (F), 10=-717 (F)

Trapezoidal Loads (lb/ft)

Vert: 1=-120-to-7=-120, 7=-120-to-2=-121, 2=-121to-8=-121. 8=-121-to-3=-122



June 6,2025



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

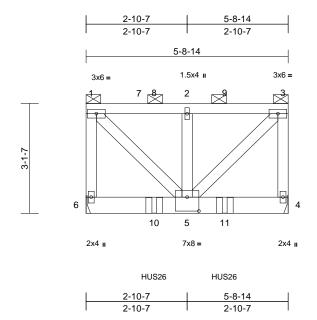
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|-------------|-----|-----|--------------------------|-----------|
| 2503401-A | M49G | Flat Girder | 1 | 1 | Job Reference (optional) | 173987975 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:16 ID:35GjH_BtkoXh9vLS1pLMc_zEfx9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:32.7

Plate Offsets (X, Y): [5:0-4-0,0-4-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.41 | Vert(LL) | -0.01 | 4-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.28 | Vert(CT) | -0.03 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.43 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 43 lb | FT = 12% |

LUMBER

2x4 SP 1650F 1 6F TOP CHORD BOT CHORD 2x6 SP 2400F 2.0E **WEBS** 2x4 SP No.2

BRACING

TOP CHORD 2-0-0 oc purlins: 1-3, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 4= Mechanical, 6= Mechanical

Max Horiz 6=99 (LC 12)

Max Uplift 4=-114 (LC 10), 6=-96 (LC 9) Max Grav 4=1756 (LC 1), 6=1698 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-6=-1379/271, 1-2=-1220/192,

2-3=-1220/192, 3-4=-1370/279 **BOT CHORD** 5-6=-147/151, 4-5=-53/57

WEBS 1-5=-325/1732, 2-5=-501/167, 3-5=-325/1732

NOTES

TOP CHORD

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- Plates checked for a plus or minus 5 degree rotation
- Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 96 lb uplift at joint 6 and 114 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or
- 12) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-11-4 from the left end to 3-11-4 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-6=-20

Concentrated Loads (lb)

Vert: 1=-11, 10=-1337 (B), 11=-1337 (B)

Trapezoidal Loads (lb/ft)

Vert: 1=-120-to-7=-121, 7=-121-to-8=-121, 8=-122to-2=-122, 2=-122-to-9=-121, 9=-121-to-3=-123



June 6,2025



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

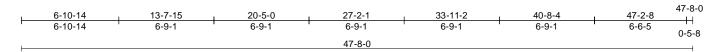
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M50 | Monopitch | 18 | 1 | Job Reference (optional) | 173987976 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:16 ID:qcgJIW8tz55JCVT7yCzyWAzEg86-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



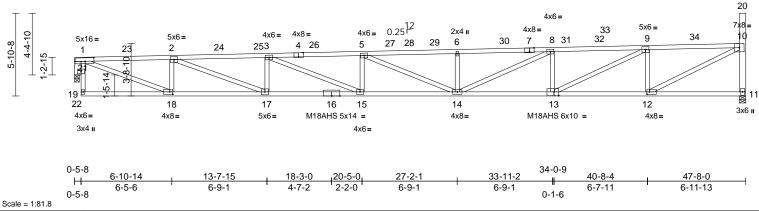


Plate Offsets (X, Y): [1:0-7-8,0-3-0], [4:0-4-0,Edge], [7:0-4-0,Edge], [12:0-2-4,0-2-0], [13:0-4-0,0-3-4], [18:0-2-8,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.98 | Vert(LL) | -0.84 | 14-15 | >674 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.80 | Vert(CT) | -1.85 | 14-15 | >307 | 180 | M18AHS | 186/179 |
| TCDL | 15.0 | Rep Stress Incr | Yes | WB | 0.82 | Horz(CT) | 0.16 | 11 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 250 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 DF-N 2850F 2.3E *Except* 1-4:2x4 SP

2400F 2.0E

BOT CHORD 2x4 SP 2400F 2.0E *Except* 13-11:2x4 SP

1650F 1.6E

WFBS 2x4 SP No.2 *Except*

19-1,1-18,10-12,14-8,13-9:2x4 SP 1650F

1.6E, 20-11:2x6 SP 2400F 2.0E

OTHERS 2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 5-0-11 oc

bracing

REACTIONS (size) 11=0-5-8, 22=0-4-0

Max Horiz 22=222 (LC 10)

Max Uplift 11=-186 (LC 13), 22=-193 (LC 13)

Max Grav 11=2465 (LC 26), 22=2113 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 19-21=0/81, 1-21=0/81, 1-2=-4921/1657,

2-3=-7729/2522, 3-5=-8842/2868, 5-6=-8497/2764, 6-8=-8497/2772,

8-9=-6816/2263, 9-10=-4176/1451,

10-11=-2395/705, 10-20=0/0

18-19=-302/465, 17-18=-1612/4916, **BOT CHORD**

15-17=-2421/7723, 14-15=-2716/8835, 12-14=-2032/6854, 11-12=-1/117

WEBS 1-18=-1458/4777, 10-12=-1315/4555,

2-18=-1625/619, 2-17=-918/3006,

3-17=-938/409, 3-15=-366/1200,

5-15=-317/218. 5-14=-504/162.

6-14=-480/268, 8-14=-590/1844

8-13=-1212/503, 9-13=-952/3028

9-12=-1932/683, 1-22=-2327/719

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft: L=48ft: eave=6ft: Cat. II: Exp C: Enclosed: MWFRS (directional) and C-C Corner (3) 0-7-4 to 5-7-4. Exterior (2) 5-7-4 to 42-5-4, Corner (3) 42-5-4 to 47-5-4 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 6) Plates checked for a plus or minus 5 degree rotation about its center.
- Bearing at joint(s) 22 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 186 lb uplift at joint 11 and 193 lb uplift at joint 22.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft) Vert: 1-33=-61, 11-19=-20 Trapezoidal Loads (lb/ft)

Vert: 33=-61-to-9=-84, 9=-84-to-34=-109, 34=-109to-10=-135





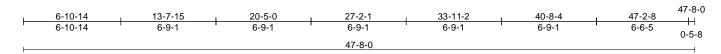
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

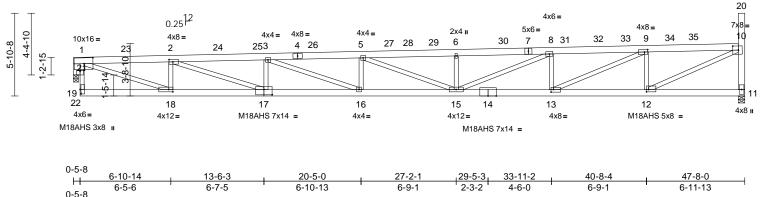


| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M50A | Monopitch | 2 | 1 | Job Reference (optional) | 173987977 |

Run: 8.83 S. Apr. 24.2025 Print: 8.830 S. Apr. 24.2025 MiTek Industries. Inc. Thu. Jun 05.07:14:17 ID:qcgJIW8tz55JCVT7yCzyWAzEg86-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:81.8

[1:0-7-8,0-5-0], [2:0-3-4,0-2-0], [9:0-2-12,0-2-0], [10:0-4-12,0-3-8], [12:0-1-12,0-2-0], [13:0-2-0,0-2-4], [17:0-7-0,0-4-8], [18:0-3-8,0-2-0], [19:0-3-12,0-0-12], [19:0-3-12],

Plate Offsets (X, Y): [21:0-3-0,0-1-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defI | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.94 | Vert(LL) | -1.15 | 15-16 | >495 | 240 | M18AHS | 186/179 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.75 | Vert(CT) | -1.93 | 15-16 | >293 | 180 | MT20 | 244/190 |
| TCDL | 15.0 | Rep Stress Incr | Yes | WB | 0.91 | Horz(CT) | 0.13 | 11 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 329 lb | FT = 12% |

LUMBER

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

19-1,10-12,17-2,13-9:2x4 SP 1650F 1.6E,

1-18:2x4 SP 2400F 2.0E, 20-11:2x6 SP 2400F 2 0F

2x6 SP 2400F 2.0E **OTHERS**

BRACING TOP CHORD

Structural wood sheathing directly applied or 2-3-3 oc purlins. except end verticals.

Rigid ceiling directly applied or 6-2-8 oc

BOT CHORD bracing

REACTIONS (size) 11=0-5-8, 22=0-4-0, (req. 0-4-8)

Max Horiz 22=222 (LC 10)

Max Uplift 11=-186 (LC 13), 22=-193 (LC 13) Max Grav 11=3002 (LC 26), 22=2854 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

19-21=0/130, 1-21=0/130, 1-2=-7005/1743, 2-3=-10885/2635, 3-5=-12465/3014, 5-6=-11866/2896 6-8=-11866/2903 8-9=-9479/2387, 9-10=-5512/1510,

10-11=-2902/700, 10-20=0/0 BOT CHORD 18-19=-310/704, 16-18=-2550/10948,

15-16=-2851/12455, 13-15=-2123/9470, 12-13=-1210/5503, 11-12=-19/165 1-18=-1510/6697, 10-12=-1333/5930,

2-18=-2227/621, 2-17=-943/4128, 3-17=-1282/406, 3-16=-373/1612, 5-16=-440/215, 5-15=-760/176, 6-15=-688/266, 8-15=-618/2608 8-13=-1690/506, 9-13=-1018/4371, 9-12=-2478/676, 1-22=-3165/733

NOTES

WEBS

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=48ft; eave=6ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 0-7-4 to 5-7-4, Exterior (2) 5-7-4 to 42-5-4, Corner (3) 42-5-4 to 47-5-4 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 6) Plates checked for a plus or minus 5 degree rotation about its center.
- WARNING: Required bearing size at joint(s) 22 greater than input bearing size.
- Bearing at joint(s) 22 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 186 lb uplift at joint 11 and 193 lb uplift at joint 22.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss
- 12) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-33=-93, 11-19=-20

Concentrated Loads (lb)

Vert: 1=-6

Trapezoidal Loads (lb/ft)

Vert: 33=-94-to-9=-88, 9=-90-to-34=-91, 34=-94to-35=-109, 35=-109-to-10=-139



June 6,2025



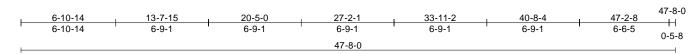
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

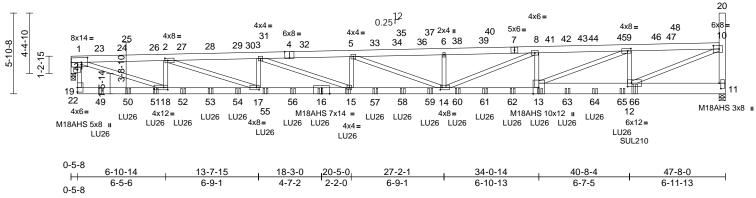


| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|---------------------|-----|-----|--------------------------|-----------|
| 2503401-A | M50G | Roof Special Girder | 1 | 3 | Job Reference (optional) | 173987978 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:18 ID:kX5Nf1IYJ8PsG6CmiHZ9_?zEfnN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:83.9

Plate Offsets (X, Y): [1:0-5-8,0-4-0], [2:0-2-8,0-2-0], [4:0-4-0,Edge], [9:0-3-0,0-2-0], [10:0-5-0,0-3-0], [11:0-4-12,0-1-8], [12:0-3-8,0-3-0], [14:0-1-8,0-2-0], [17:0-2-4,0-2-0], [18:0-3-8,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|-----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.82 | Vert(LL) | -1.23 | 14-15 | >461 | 240 | M18AHS | 186/179 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.84 | Vert(CT) | -1.87 | 14-15 | >304 | 180 | MT20 | 244/190 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.97 | Horz(CT) | 0.10 | 11 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 1048 lb | FT = 12% |

LUMBER

TOP CHORD 2x6 SP 2400F 2 0F

BOT CHORD 2x6 SP 2400F 2.0E *Except* 13-11:2x10 SP

M 23

WEBS 2x4 SP No.2 *Except* 19-1,10-12,1-18:2x4

SP 1650F 1.6E, 20-11:2x6 SP 2400F 2.0E

OTHERS 2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-9-4 oc purlins, except end verticals.

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

bracing.

REACTIONS 11=0-5-8, 22=0-4-0 (size) Max Horiz 22=220 (LC 10)

Max Uplift 11=-2417 (LC 13), 22=-2402 (LC

13)

11=7781 (LC 26), 22=7933 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 19-21=-256/755, 1-21=-256/755,

1-2=-19793/7294, 2-3=-30999/11372 3-5=-35372/13008. 5-6=-33800/12520. 6-8=-33799/12527. 8-9=-26804/10119. 9-10=-16232/6429, 10-11=-7419/2816,

10-20=0/0

BOT CHORD 18-19=-863/1991, 17-18=-7249/19783,

15-17=-11261/30986, 14-15=-12842/35358,

12-14=-9913/26964, 11-12=-176/503 WEBS 2-18=-4882/1813, 3-17=-2333/906, 2-17=-4323/11900, 5-15=-248/439, 3-15=-1742/4675, 6-14=-606/277,

5-14=-1692/575, 8-13=-3509/1288, 9-12=-5386/1910, 10-12=-6592/17306, 1-18=-6828/18932. 9-13=-4124/11692. 8-14=-2618/7459, 1-22=-8753/3164

NOTES

- 1) 3-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 oc. 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows

staggered at 0-9-0 oc, 2x10 - 2 rows staggered at 0-6-0

- 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 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=48ft; eave=6ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 0-7-4 to 5-7-4, Exterior (2) 5-7-4 to 42-5-4, Corner (3) 42-5-4 to 47-5-4 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation
- Bearing at joint(s) 22 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 2417 lb uplift at joint 11 and 2402 lb uplift at joint 22.

- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 13) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 14) Use Simpson Strong-Tie LU26 (6-10d Girder, 4-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-2-0 from the left end to 40-2-0 to connect truss(es) to back face of bottom chord.
- 15) Use Simpson Strong-Tie SUL210 (10-10d Girder, 10-10dx1 1/2 Truss) or equivalent at 41-0-12 from the left end to connect truss(es) to back face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
- 16) Fill all nail holes where hanger is in contact with lumber. LOAD CASE(S) Standard



Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Ply Job Truss Truss Type Qty Discover Pet Spa 173987978 3 2503401-A M50G Roof Special Girder 1 Job Reference (optional)

Lumber Specialties, Dyersville, IA - 52040,

to-10=-135

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:18 ID:kX5Nf1IYJ8PsG6CmiHZ9_?zEfnN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 28-29=-83, 4-33=-83, 37-38=-83, 7-8=-83, 11-19=-20 Concentrated Loads (lb) Vert: 1=0, 13=-465 (B), 16=-466 (B), 15=-466 (B), 46=-6, 49=-466 (B), 50=-466 (B), 51=-466 (B), 52=-467 (B), 53=-468 (B), 54=-465 (B), 55=-467 (B), 56=-468 (B), 57=-465 (B), 58=-467 (B), 59=-468 (B), 60=-465 (B), 61=-467 (B), 62=-465 (B), 63=-469 (B), 64=-467 (B), 65=-455 (B), 66=-942 (B) Trapezoidal Loads (lb/ft) Vert: 1=-84-to-23=-83, 23=-84-to-24=-84, 24=-84to-25=-83, 25=-84-to-26=-83, 26=-84-to-2=-84, 2=-84-to-27=-83, 27=-84-to-28=-83, 29=-84to-30=-84, 30=-84-to-3=-84, 3=-84-to-31=-83, 31=-84-to-4=-83, 33=-84-to-34=-83, 34=-83to-35=-83, 35=-84-to-36=-84, 36=-84-to-37=-83, 38=-84-to-39=-83, 39=-84-to-40=-84, 40=-84to-7=-83, 8=-84-to-41=-84, 41=-84-to-42=-83, 42=-84-to-43=-84, 43=-84-to-44=-83, 44=-84to-45=-83, 45=-83-to-9=-90, 9=-83-to-46=-97,

46=-99-to-47=-103, 47=-104-to-48=-106, 48=-106-



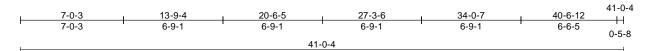
June 6,2025

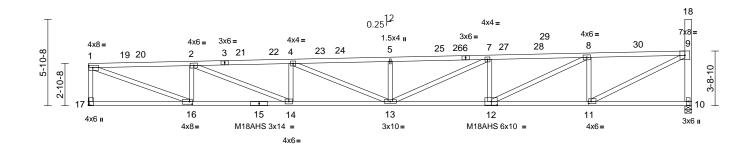


| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|-------------|-----|-----|--------------------------|-----------|
| 2503401-A | M51 | Jack-Closed | 2 | 1 | Job Reference (optional) | 173987979 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:18 ID:nLRCYGCRTp2z8tdrZz1MYWzEg6I-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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| | 7-0-3 | 13-9-4 | 20-6-5 | 27-3-6 | 34-0-7 | 41-0-4 | 1 |
|----------------|-------|--------|--------|--------|--------|---------|---|
| Scalo - 1:79 / | 7-0-3 | 6-9-1 | 6-9-1 | 6-9-1 | 6-9-1 | 6-11-13 | 1 |

Plate Offsets (X, Y): [1:0-3-4,0-1-12], [11:0-2-0,0-1-12], [12:0-4-12,0-3-0], [16:0-2-4,0-2-4]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.97 | Vert(LL) | -0.53 | 13-14 | >914 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.98 | Vert(CT) | -1.17 | 13-14 | >418 | 180 | M18AHS | 186/179 |
| TCDL | 15.0 | Rep Stress Incr | Yes | WB | 0.75 | Horz(CT) | 0.19 | 10 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 221 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x4 SP 1650F 1.6E **WEBS** 2x4 SP No.2 *Except*

16-1,9-11,12-8,13-7:2x4 SP 1650F 1.6E,

18-10:2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals

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

bracing.

REACTIONS (size) 10=0-5-8, 17= Mechanical

> 17=245 (LC 10) Max Horiz

Max Uplift 10=-152 (LC 13), 17=-42 (LC 13) Max Grav 10=2170 (LC 26), 17=1989 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-4086/1181, 2-4=-6039/1852,

4-5=-6501/2037, 5-7=-6501/2044, 7-8=-5554/1803, 8-9=-3571/1230,

1-17=-1918/485, 9-10=-2100/630, 9-18=0/0

16-17=-446/390, 14-16=-1490/4078,

13-14=-2012/6032, 11-13=-1710/5580,

10-11=-2/116

WEBS 2-16=-1366/546, 1-16=-1286/4263, 4-14=-657/346, 2-14=-715/2108,

5-13=-485/269, 4-13=-193/593, 7-12=-892/421, 8-11=-1625/605

9-11=-1145/3879, 8-12=-767/2305,

7-13=-389/1059

NOTES

BOT CHORD

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=41ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 0-1-12 to 5-1-12. Exterior (2) 5-1-12 to 35-9-8. Corner (3) 35-9-8 to 40-9-8 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 152 lb uplift at joint 10 and 42 lb uplift at joint 17.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-19=-118, 19-29=-61, 10-17=-20

Concentrated Loads (lb)

Vert: 1=-1

Trapezoidal Loads (lb/ft) Vert: 29=-61-to-8=-84, 8=-84-to-30=-110, 30=-110to-9=-136





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

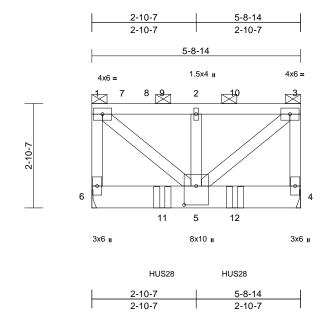
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|-------------|-----|-----|--------------------------|-----------|
| 2503401-A | M52G | Flat Girder | 1 | 1 | Job Reference (optional) | 173987980 |

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Page: 1



Scale = 1:31.7

Plate Offsets (X, Y): [5:0-6-4,0-4-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.38 | Vert(LL) | -0.01 | 4-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.28 | Vert(CT) | -0.03 | 4-5 | >999 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.56 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 44 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E **BOT CHORD** 2x8 SP M 23 **WEBS** 2x4 SP No.2

BRACING

TOP CHORD 2-0-0 oc purlins (5-6-13 max.): 1-3, except

end verticals.

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

bracing.

REACTIONS (size) 4= Mechanical, 6= Mechanical

Max Horiz 6=-87 (LC 11)

Max Uplift 4=-120 (LC 10), 6=-116 (LC 9)

Max Grav 4=2268 (LC 1), 6=2172 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-6=-1599/290, 1-2=-1690/182, 2-3=-1690/182, 3-4=-1598/292

BOT CHORD 5-6=-130/134, 4-5=-47/51

WEBS 1-5=-287/2263, 2-5=-328/340, 3-5=-287/2263

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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 DOI = 1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- Plates checked for a plus or minus 5 degree rotation about its center.

- 6) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 6 and 120 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or
- 12) Use Simpson Strong-Tie HUS28 (22-10d Girder, 8-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-11-4 from the left end to 3-11-4 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft) Vert: 3-10=-71, 4-6=-20

Concentrated Loads (lb)

Vert: 11=-1969 (B), 12=-1969 (B)

Trapezoidal Loads (lb/ft)

Vert: 1=-72-to-7=-72. 7=-72-to-8=-72. 8=-72to-9=-73, 9=-73-to-2=-72, 2=-72-to-10=-71



June 6,2025



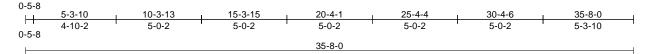
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|---------------------|-----|-----|--------------------------|-----------|
| 2503401-A | M53G | Roof Special Girder | 1 | 3 | Job Reference (optional) | I73987981 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:19 ID:QQkHqbJCkf?Z8SkLMgZ6UnzEfO7-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



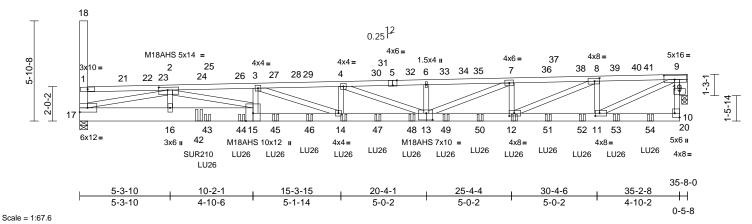


Plate Offsets (X, Y): [2:0-6-4,0-2-0], [5:0-3-0,Edge], [8:0-3-7,0-2-0], [9:0-7-8,0-3-0], [10:Edge,0-3-8], [11:0-3-0,0-2-0], [12:0-3-8,0-2-0], [13:0-4-8,0-4-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.96 | Vert(LL) | -0.95 | 13-14 | >445 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.70 | Vert(CT) | -1.45 | 13-14 | >291 | 180 | M18AHS | 186/179 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 1.00 | Horz(CT) | 0.02 | 20 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 700 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 2400F 2 0F

BOT CHORD 2x6 SP 2400F 2.0E *Except* 17-15:2x10 SP M 23

WEBS 2x4 SP No.2 *Except* 18-17:2x6 SP 2400F

2 0F

OTHERS 2x6 SP 2400F 2.0E

BRACING

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or 3-11-2 oc purlins, except end verticals.

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

bracing.

REACTIONS 17=0-5-8, 20=0-4-0 (size)

Max Horiz 17=272 (LC 10)

Max Uplift 17=-1866 (LC 9), 20=-1825 (LC 10)

Max Grav 17=5863 (LC 26), 20=6035 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-1907/1251, 2-3=-24908/9981 3-4=-28395/10914, 4-6=-26626/10027,

6-7=-26625/10033, 7-8=-21318/7930, 8-9=-12394/4561, 10-19=-194/616, 9-19=-194/616, 1-17=-576/150, 1-18=0/0

BOT CHORD 16-17=-6994/16213, 14-16=-10086/25034,

12-14=-10970/28386, 11-12=-4596/12386,

10-11=-555/1439

WEBS 2-16=-425/684, 2-15=-3606/9242,

3-15=-1730/646, 3-14=-1184/3570, 4-14=-303/569, 4-13=-2010/957,

6-13=-472/216, 7-13=-2294/5776, 7-12=-2617/1073, 8-12=-3700/9786 8-11=-4307/1673, 9-11=-4520/12245,

2-17=-15411/6386, 9-20=-6579/2412

NOTES

- 1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 2 rows staggered at 0-6-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 - Bottom chords connected as follows: 2x10 3 rows staggered at 0-8-0 oc, 2x6 - 2 rows staggered at 0-9-0
 - Web connected as follows: 2x4 1 row at 0-9-0 oc.
- 2) 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 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 20-0-12, Corner (3) 20-0-12 to 35-0-12 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Bearing at joint(s) 20 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 1866 lb uplift at joint 17 and 1825 lb uplift at joint 20.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 13) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 14) Use Simpson Strong-Tie SUR210 (10-10d Girder, 10-10dx1 1/2 Truss) or equivalent at 7-0-0 from the left end to connect truss(es) to back face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.
- 15) Use Simpson Strong-Tie LU26 (6-10d Girder, 4-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 7-6-0 from the left end to 33-6-0 to connect truss(es) to back face of bottom chord.
- 16) Fill all nail holes where hanger is in contact with lumber.



June 6,2025

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Ply Job Truss Truss Type Qty Discover Pet Spa 173987981 3 2503401-A M53G Roof Special Girder Job Reference (optional)

Lumber Specialties, Dyersville, IA - 52040,

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:19 ID:QQkHqbJCkf?Z8SkLMgZ6UnzEfO7-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 24-25=-79, 10-17=-20 Concentrated Loads (lb) Vert: 9=-6, 2=-10, 14=-490 (B), 12=-490 (B), 24=0, 42=-988 (B), 43=-470 (B), 44=-490 (B), 45=-490 (B), 46=-490 (B), 47=-490 (B), 48=-490 (B), 49=-490 (B), 50=-490 (B), 51=-490 (B), 52=-490 (B), 53=-490 (B), 54=-504 (B)

Trapezoidal Loads (lb/ft)

Vert: 1=-145-to-21=-126, 21=-126-to-22=-114, 22=-113-to-23=-107, 23=-107-to-2=-104, 2=-100to-24=-81, 25=-80-to-26=-79, 26=-80-to-3=-80, 3=-80-to-27=-79, 27=-80-to-28=-80, 28=-80to-29=-79, 29=-80-to-4=-79, 4=-80-to-30=-79, 30=-80-to-31=-80, 31=-80-to-5=-80, 5=-80to-32=-79, 32=-80-to-6=-80, 6=-80-to-33=-79, 33=-80-to-34=-80, 34=-80-to-35=-79, 35=-80to-7=-79, 7=-80-to-36=-79, 36=-80-to-37=-80, 37=-80-to-38=-79, 38=-80-to-8=-80, 8=-80to-39=-79, 39=-80-to-40=-80, 40=-80-to-41=-79, 41=-80-to-9=-80



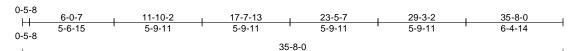
June 6,2025

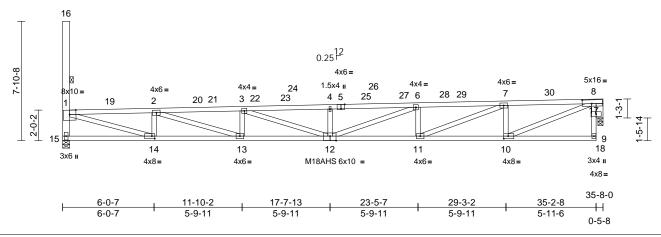


| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|----------|
| 2503401-A | M54 | Monopitch | 18 | 1 | Job Reference (optional) | 73987982 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:20 ID:SZuc2QtmJ1ty5w6HCJniZqzEgPF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:76

Plate Offsets (X, Y): [5:0-3-0,Edge], [8:0-7-8,0-3-0], [10:0-3-8,0-2-0], [12:0-4-12,Edge], [14:0-2-4,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.90 | Vert(LL) | -0.59 | 12-13 | >720 | 240 | MT20 | 220/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.64 | Vert(CT) | -1.24 | 12-13 | >341 | 180 | M18AHS | 186/179 |
| TCDL | 15.0 | Rep Stress Incr | Yes | WB | 0.89 | Horz(CT) | 0.07 | 18 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 190 lb | FT = 12% |

LUMBER

2x4 SP 2400F 2.0E *Except* 1-5:2x4 DF-N TOP CHORD

2850F 2.3E

BOT CHORD 2x4 SP 2400F 2.0E

WEBS 2x4 SP No.2 *Except* 1-14:2x4 SP 1650F

1.6E, 16-15:2x6 SP 2400F 2.0E

OTHERS 2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals.

Except:

6-0-0 oc bracing: 1-15 7-5-0 oc bracing: 1-16

BOT CHORD Rigid ceiling directly applied or 4-11-6 oc

bracing.

1 Row at midpt 1-16

WEBS REACTIONS (size) 15=0-5-8, 18=0-4-0

Max Horiz 15=381 (LC 10)

Max Uplift 15=-181 (LC 9), 18=-181 (LC 10) Max Grav 15=1966 (LC 26), 18=1587 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-4910/2305, 2-3=-6856/2775,

3-4=-7144/2716, 4-6=-7144/2722 6-7=-6013/2219, 7-8=-3712/1339, 9-17=0/77,

8-17=0/77, 1-15=-1889/642, 1-16=0/0

14-15=-1238/1853, 13-14=-2376/4901,

11-13=-2839/6848, 10-11=-1377/3706, 9-10=-158/362

1-14=-1778/4877. 8-10=-1322/3627.

2-14=-1285/574, 2-13=-1081/2211,

3-13=-549/396, 3-12=-444/509,

4-12=-423/243, 6-12=-545/1208

6-11=-800/420, 7-11=-955/2478.

7-10=-1309/600, 8-18=-1757/641

NOTES

WEBS

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 20-0-12, Corner (3) 20-0-12 to 35-0-12 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Bearing at joint(s) 18 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 181 lb uplift at joint 15 and 181 lb uplift at joint 18.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft) Vert: 8-21=-61, 9-15=-20 Trapezoidal Loads (lb/ft)

Vert: 1=-147-to-19=-121, 19=-121-to-2=-95, 2=-95to-20=-70, 20=-70-to-21=-61





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

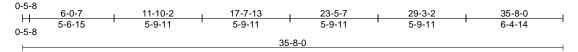
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

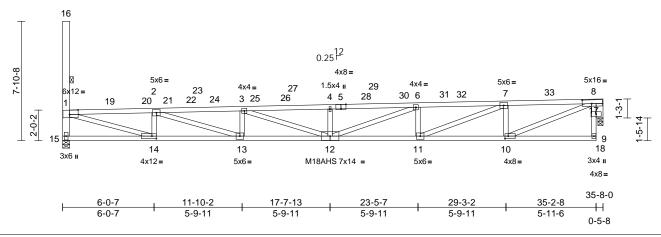


| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M54A | Monopitch | 2 | 1 | Job Reference (optional) | 173987983 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:20 ID:SZuc2QtmJ1ty5w6HCJniZqzEgPF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:76

Plate Offsets (X, Y): [1:0-6-12,Edge], [5:0-4-0,Edge], [8:0-7-8,0-3-0], [10:0-2-8,0-2-0], [14:0-3-8,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 1.00 | Vert(LL) | -0.88 | 12-13 | >481 | 240 | MT20 | 220/195 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.79 | Vert(CT) | -1.51 | 12-13 | >281 | 180 | M18AHS | 186/179 |
| TCDL | 15.0 | Rep Stress Incr | Yes | WB | 0.90 | Horz(CT) | 0.09 | 18 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 188 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 DF-N 2850F 2.3E BOT CHORD 2x4 SP 2400F 2.0E

WEBS 2x4 SP No.2 *Except* 8-9,1-14,8-10:2x4 SP

1650F 1.6E, 16-15:2x6 SP 2400F 2.0E 2x6 SP 2400F 2.0E

OTHERS BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals. Except: 6-0-0 oc bracing: 1-15

7-5-0 oc bracing: 1-16 **BOT CHORD** Rigid ceiling directly applied or 4-11-6 oc

bracing.

WEBS 1 Row at midpt 15=0-5-8, 18=0-4-0 REACTIONS (size) Max Horiz 15=381 (LC 10)

Max Uplift 15=-181 (LC 9), 18=-181 (LC 10) Max Grav 15=2261 (LC 26), 18=2060 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-5860/2305, 2-3=-8575/2775,

3-4=-9098/2716, 4-6=-9098/2722,

6-7=-7723/2218, 7-8=-4802/1340, 9-17=0/81,

8-17=0/81, 1-15=-2181/642, 1-16=0/0 14-15=-1238/1853, 13-14=-2376/5851,

BOT CHORD 11-13=-2839/8566, 10-11=-1378/4795,

9-10=-156/466

WEBS 1-14=-1778/5857, 8-10=-1326/4695,

2-14=-1564/574, 2-13=-1081/2848, 3-13=-741/397. 3-12=-443/696. 4-12=-593/243, 6-12=-546/1469 6-11=-1048/419, 7-11=-952/3146,

7-10=-1727/600. 8-18=-2282/640

NOTES

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 20-0-12, Corner (3) 20-0-12 to 35-0-12 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Provide adequate drainage to prevent water ponding. All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation
- about its center.
- Bearing at joint(s) 18 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 181 lb uplift at joint 15 and 181 lb uplift at joint 18.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 8-22=-90, 9-15=-20

Concentrated Loads (lb)

Vert: 8=-4

Trapezoidal Loads (lb/ft)

Vert: 1=-144-to-19=-119, 19=-119-to-20=-99, 20=-97to-2=-95, 2=-95-to-21=-91, 21=-89-to-22=-91





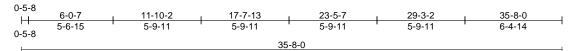
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

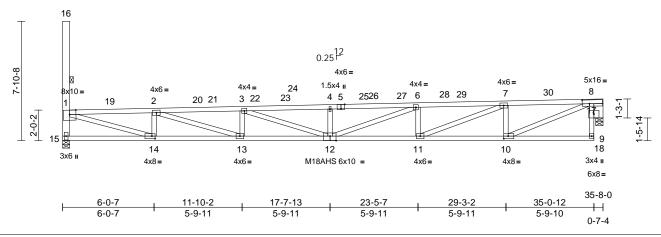
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M55 | Monopitch | 7 | 1 | Job Reference (optional) | 173987984 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:21 ID:r?Qlp8OMWLa3Z6wbRAPo5IzEgEF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:76

Plate Offsets (X, Y): [5:0-3-0,Edge], [8:0-5-12,0-3-0], [10:0-3-8,0-2-0], [12:0-4-12,Edge], [14:0-2-8,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.87 | Vert(LL) | -0.62 | 12-13 | >676 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.97 | Vert(CT) | -1.32 | 12-13 | >321 | 180 | M18AHS | 186/179 |
| TCDL | 15.0 | Rep Stress Incr | Yes | WB | 0.87 | Horz(CT) | 0.08 | 18 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 193 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 2400F 2 0F

2x4 SP 2400F 2.0E *Except* 12-9:2x4 SP **BOT CHORD**

1650F 1.6E

WEBS 2x4 SP No.2 *Except* 8-9,1-14:2x4 SP 1650F

1.6E, 16-15:2x6 SP 2400F 2.0E

OTHERS 2x8 SP M 23

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals.

Except:

6-0-0 oc bracing: 1-15 7-5-0 oc bracing: 1-16

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

bracing. **WEBS**

1 Row at midpt 1-16

REACTIONS (size) 15=0-5-8, 18=0-5-13

Max Horiz 15=381 (LC 10)

Max Uplift 15=-181 (LC 9), 18=-181 (LC 10)

Max Grav 15=1963 (LC 26), 18=1577 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-4902/2301, 2-3=-6836/2769,

3-4=-7116/2706, 4-6=-7116/2713,

6-7=-5977/2206, 7-8=-3667/1323, 9-17=0/73,

8-17=0/73, 1-15=-1885/642, 1-16=0/0

BOT CHORD 14-15=-1242/1858, 13-14=-2372/4893,

11-13=-2832/6829, 10-11=-1361/3662,

9-10=-171/400

2-14=-1284/576, 7-10=-1307/597.

1-14=-1787/4872, 3-13=-548/395,

2-13=-1076/2200, 4-12=-424/242,

3-12=-441/502, 6-11=-802/421, 6-12=-548/1217, 7-11=-958/2487.

8-10=-1296/3551, 8-18=-1803/660

NOTES

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 19-11-0, Corner (3) 19-11-0 to 34-11-0 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Bearing at joint(s) 18 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 181 lb uplift at joint 15 and 181 lb uplift at joint 18.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft) Vert: 8-21=-61, 9-15=-20 Trapezoidal Loads (lb/ft)

Vert: 1=-147-to-19=-121, 19=-121-to-2=-95, 2=-95to-20=-70, 20=-70-to-21=-61





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

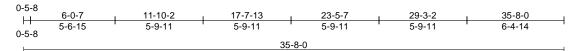
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

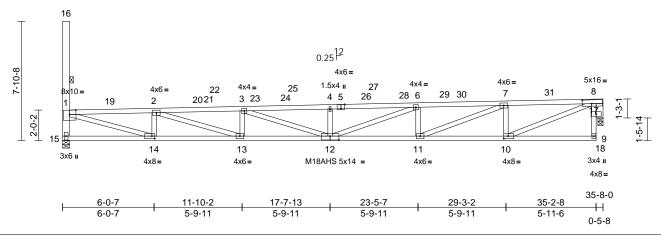


| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M58 | Monopitch | 24 | 1 | Job Reference (optional) | 173987985 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:21 ID:SZuc2QtmJ1ty5w6HCJniZqzEgPF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:76

Plate Offsets (X, Y): [5:0-3-0,Edge], [8:0-7-8,0-3-0], [10:0-3-8,0-2-0], [12:0-7-0,0-3-0], [14:0-2-4,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.91 | Vert(LL) | -0.63 | 12-13 | >668 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.98 | Vert(CT) | -1.33 | 12-13 | >318 | 180 | M18AHS | 186/179 |
| TCDL | 15.0 | Rep Stress Incr | Yes | WB | 0.89 | Horz(CT) | 0.08 | 18 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 193 lb | FT = 12% |

LUMBER

2x4 SP 2400F 2.0E TOP CHORD

2x4 SP 2400F 2.0E *Except* 12-9:2x4 SP **BOT CHORD**

1650F 1.6E

WEBS 2x4 SP No.2 *Except* 1-14:2x4 SP 1650F

1.6E, 16-15:2x6 SP 2400F 2.0E

OTHERS 2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals.

Except:

6-0-0 oc bracing: 1-15

7-5-0 oc bracing: 1-16

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

WEBS

1 Row at midpt 1-16

REACTIONS (size) 15=0-5-8, 18=0-4-0 Max Horiz 15=381 (LC 10)

Max Uplift 15=-181 (LC 9), 18=-181 (LC 10)

Max Grav 15=1981 (LC 26), 18=1590 (LC 26)

FORCES (lb) - Maximum Compression/Maximum Tension

BOT CHORD

WEBS

TOP CHORD 1-2=-4939/2305, 2-3=-6880/2776,

3-4=-7165/2716, 4-6=-7165/2722

6-7=-6027/2219, 7-8=-3721/1340, 9-17=0/74,

8-17=0/74, 1-15=-1903/642, 1-16=0/0

14-15=-1242/1858, 13-14=-2375/4929,

11-13=-2839/6873, 10-11=-1378/3716, 9-10=-155/358

1-14=-1790/4908. 8-10=-1326/3643.

2-14=-1294/577, 2-13=-1078/2209,

3-13=-551/396, 3-12=-444/510,

4-12=-424/242, 6-12=-545/1216

6-11=-801/419, 7-11=-954/2483

7-10=-1311/600, 8-18=-1760/641 NOTES

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

Wind: ASCE 7-16: Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 20-0-12, Corner (3) 20-0-12 to 35-0-12 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

TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Bearing at joint(s) 18 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 181 lb uplift at joint 15 and 181 lb uplift at joint 18.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft) Vert: 8-22=-61, 9-15=-20

Concentrated Loads (lb)

Vert: 21=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-150-to-19=-123, 19=-123-to-2=-97, 2=-97to-20=-70, 20=-70-to-21=-63, 21=-62-to-22=-60



June 6,2025



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

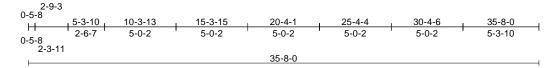
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

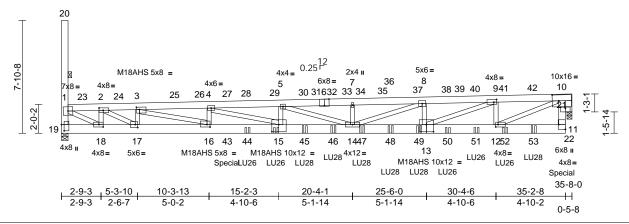


| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|---------------------|-----|-----|--------------------------|-----------|
| 2503401-A | M58G | Roof Special Girder | 1 | 3 | Job Reference (optional) | 173987986 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:22 ID:jYAnKEuZBJs5AkhdEZ4RPVzEfal-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Scale = 1:80.5

[2:0-3-7,0-2-0], [3:0-2-8,0-2-0], [6:0-4-0,Edge], [9:0-2-4,0-2-4], [10:0-5-8,0-5-0], [11:Edge,0-5-8], [12:0-2-0,0-2-0], [13:0-6-0,0-6-0], [15:0-5-12,0-6-0], [16:0-2-8,0-2-0], Plate Offsets (X, Y): [17:0-2-0,0-2-8], [18:0-3-8,0-2-0], [19:0-5-4,0-2-4], [21:0-4-0,0-1-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defI | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.65 | Vert(LL) | -0.93 | 14-15 | >458 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.78 | Vert(CT) | -1.54 | 14-15 | >275 | 180 | M18AHS | 186/179 |
| TCDL | 15.0 | Rep Stress Incr | Yes | WB | 0.96 | Horz(CT) | 0.04 | 22 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MS | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 831 lb | FT = 12% |

LUMBER TOP CHORD 2x6 SP 2400F 2.0E **BOT CHORD** 2x8 SP M 23

2x4 SP No.2 *Except* 10-11,20-19:2x6 SP WEBS 2400F 2.0E, 16-3,13-9,12-10:2x4 SP 1650F

1.6E

OTHERS 2x6 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-8-11 oc purlins, except end verticals.

Except:

6-0-0 oc bracing: 1-19 10-0-0 oc bracing: 1-20

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

bracing.

WFBS 1 Row at midpt 1-20 REACTIONS (size) 19=0-5-8, 22=0-4-0 Max Horiz 19=358 (LC 66)

Max Uplift 19=-2403 (LC 9), 22=-2754 (LC 10)

Max Grav 19=6734 (LC 19), 22=8178 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-10884/5363, 2-3=-21106/9583, 3-4=-36005/15884, 4-5=-41057/17398,

5-7=-37163/15184, 7-8=-37162/15189, 8-9=-28936/11560, 9-10=-16743/6543, 11-21=-522/1566, 10-21=-522/1566, 1-19=-6227/2770, 1-20=0/0

BOT CHORD 18-19=-1641/2487, 17-18=-5398/10871,

16-17=-9605/21076, 14-16=-17371/40954,

12-14=-11679/29168, 11-12=-1052/2734

WFBS

3-17=-5923/2739, 3-16=-7129/15864, 4-16=-2163/784, 4-15=-2096/5881, 5-15=-687/1162, 5-14=-4035/2305, 7-14=-352/223, 8-14=-3789/8640, 8-13=-3358/1561, 9-13=-5469/13388, 9-12=-5240/2230, 10-12=-6083/15510, 2-17=-5332/12122, 2-18=-5989/2587,

1-18=-4475/10622, 10-22=-9308/3580

NOTES

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x8 - 3 rows staggered at 0-4-0 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 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 0-2-12 to 15-2-12, Exterior (2) 15-2-12 to 19-11-12, Corner (3) 19-11-12 to 34-11-12 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber
- DOL=1.60 plate grip DOL=1.60 TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Provide adequate drainage to prevent water ponding.

- All plates are MT20 plates unless otherwise indicated. Plates checked for a plus or minus 5 degree rotation
- Bearing at joint(s) 22 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 2403 lb uplift at
- joint 19 and 2754 lb uplift at joint 22. 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 13) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.



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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Ply Job Truss Truss Type Qtv Discover Pet Spa 173987986 3 2503401-A M58G Roof Special Girder Job Reference (optional)

Lumber Specialties, Dyersville, IA - 52040,

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:22

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14) Use Simpson Strong-Tie LU26 (6-16d Girder, 4-10dx1 1/2 Truss) or equivalent spaced at 12-0-0 oc max. starting at 13-0-0 from the left end to 31-0-0 to connect truss(es) to front face of bottom chord.

- 15) Use Simpson Strong-Tie LU28 (8-10dx1 1/2 Girder, 6-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 8-0-0 oc max. starting at 17-0-0 from the left end to 33-0-0 to connect truss(es) to front face of bottom
- 16) Fill all nail holes where hanger is in contact with lumber.
- 17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3547 lb down and 1872 lb up at 11-7-4, and 702 lb down and 241 lb up at 34-11-12 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 27-28=-62, 7-33=-62, 11-19=-20

Concentrated Loads (lb)

Vert: 10=0, 11=-702 (F), 15=-698 (F), 26=-3, 43=-2870 (F), 44=-706 (F), 45=-698 (F), 46=-698 (F), 47=-698 (F), 48=-698 (F), 49=-698 (F), 50=-698 (F), 51=-698 (F), 52=-698 (F), 53=-698 (F)

Trapezoidal Loads (lb/ft)

Vert: 1=-147-to-23=-136, 23=-136-to-2=-124, 2=-124-to-24=-113, 24=-113-to-3=-102, 3=-102to-25=-79, 25=-77-to-26=-68, 26=-66-to-4=-64, 4=-64-to-27=-62, 28=-62-to-29=-62, 29=-62to-5=-62, 5=-62-to-30=-62, 30=-62-to-31=-62, 31=-62-to-6=-62, 6=-62-to-32=-62, 32=-62to-33=-62, 7=-62-to-34=-62, 34=-62-to-35=-62, 35=-62-to-36=-62, 36=-62-to-37=-62, 37=-62to-8=-62, 8=-62-to-38=-62, 38=-62-to-39=-62, 39=-62-to-40=-62, 40=-62-to-9=-62, 9=-62to-41=-62, 41=-62-to-42=-62, 42=-62-to-10=-62



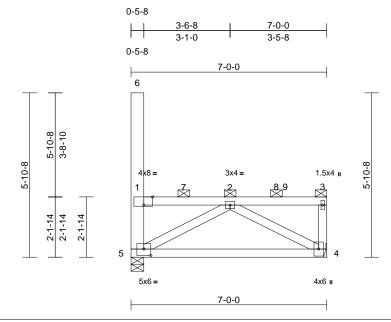
June 6,2025



| Job | | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-------|------|-------|------------|-----|-----|--------------------------|-----------|
| 25034 | 01-A | M64 | Flat | 1 | 1 | Job Reference (optional) | 173987987 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:23 ID:IzAtIDXdHg1I29jiMX_3vWzEuR?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:41.2

Plate Offsets (X, Y): [1:0-3-12,Edge], [5:0-3-0,0-2-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.45 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.33 | Vert(CT) | -0.10 | 4-5 | >786 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.18 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 46 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F 2.0E

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 8-11-7 oc

bracing

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=-261 (LC 11)

Max Uplift 4=-180 (LC 10), 5=-180 (LC 9)

Max Grav 4=605 (LC 36), 5=682 (LC 33)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=-854/588, 2-3=-36/39, 3-4=-341/127, TOP CHORD

1-5=-448/182, 1-6=0/0

BOT CHORD 4-5=-657/657 WEBS 2-4=-722/725, 2-5=-585/772

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 180 lb uplift at joint 4 and 180 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20

Concentrated Loads (lb)

Vert: 1=-1, 3=0, 9=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-169-to-7=-156, 7=-156-to-2=-143, 2=-143to-8=-130, 8=-130-to-9=-127, 9=-112-to-3=-96



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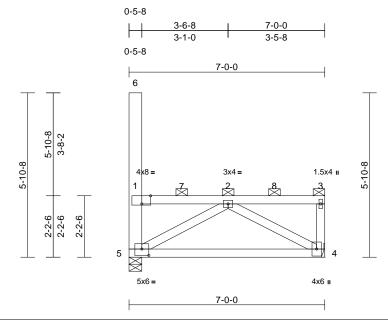
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M65 | Flat | 1 | 1 | Job Reference (optional) | 173987988 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:23 ID:D_JXD?AF1fawH9hiPSwF0UzEuQB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:41.2

Plate Offsets (X, Y): [1:0-3-12,Edge], [5:0-3-0,0-2-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.33 | Vert(CT) | -0.10 | 4-5 | >786 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.18 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 46 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 9-0-8 oc

bracing

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=-260 (LC 9)

Max Uplift 4=-180 (LC 10), 5=-180 (LC 9)

Max Grav 4=625 (LC 36), 5=682 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-832/574, 2-3=-37/40, 3-4=-358/127,

1-5=-446/181, 1-6=0/0

BOT CHORD 4-5=-644/643

WEBS 2-4=-709/714, 2-5=-582/759

NOTES

TOP CHORD

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 180 lb uplift at joint 4 and 180 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20

Concentrated Loads (lb) Vert: 1=-2

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-7=-155, 7=-155-to-2=-142, 2=-142-

to-8=-130, 8=-130-to-3=-117



June 6,2025



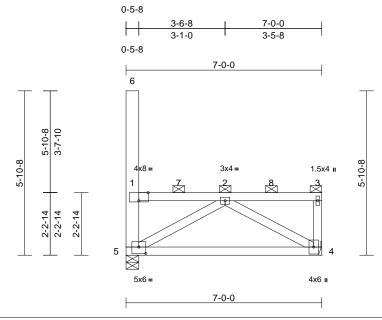
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|------|--------|-------|------------|-----|-----|--------------------------|-----------|
| 2503 | 3401-A | M66 | Flat | 1 | 1 | Job Reference (optional) | 173987989 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:23 ID:evdoh4ESJhgRrgQcZwVua2zEuOp-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:41.2

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.33 | Vert(CT) | -0.10 | 4-5 | >786 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.18 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 46 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1 6F BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 9-1-8 oc

bracing

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=-260 (LC 9)

Max Uplift 4=-180 (LC 10), 5=-180 (LC 9)

Max Grav 4=625 (LC 36), 5=682 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-812/561, 2-3=-37/41, 3-4=-358/127, TOP CHORD

1-5=-445/181, 1-6=0/0

BOT CHORD 4-5=-632/630

WEBS 2-4=-697/702, 2-5=-574/747

NOTES

- Unbalanced roof live loads have been considered for 1)
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 180 lb uplift at joint 4 and 180 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20 Concentrated Loads (lb)

Vert: 1=-2

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-7=-155, 7=-155-to-2=-142, 2=-142-

to-8=-130, 8=-130-to-3=-117



June 6,2025



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

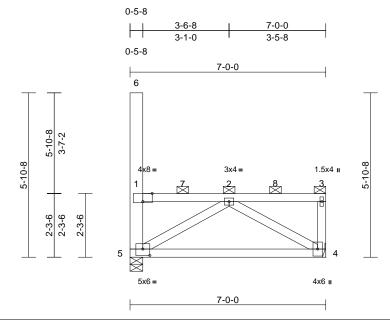
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M67 | Flat | 1 | 1 | Job Reference (optional) | 173987990 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:23 ID: eA9DFuR6 lwp 0NIDt 2? ltm dz EuOY-RfC? PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC? full fill for the control of the control o

Page: 1



Scale = 1:41.2

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.33 | Vert(CT) | -0.10 | 4-5 | >786 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.18 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 46 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 9-2-9 oc

bracing

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=-259 (LC 9)

Max Uplift 4=-179 (LC 10), 5=-179 (LC 9)

Max Grav 4=625 (LC 36), 5=682 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-792/548, 2-3=-38/42, 3-4=-358/127,

1-5=-445/180, 1-6=0/0

BOT CHORD 4-5=-620/617 WEBS 2-4=-685/692, 2-5=-566/735

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 179 lb uplift at joint 4 and 179 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20 Concentrated Loads (lb)

Vert: 1=-2

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-7=-155, 7=-155-to-2=-142, 2=-142-

to-8=-130, 8=-130-to-3=-117



June 6,2025



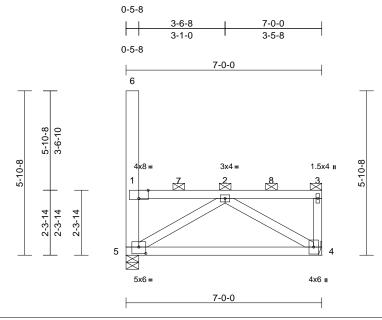
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M68 | Flat | 1 | 1 | Job Reference (optional) | 173987991 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:23 $ID:mgR8_LbGEvSARHjNJE1woNzEuOL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ffcdefinested and the state of the property of the$ Page: 1



Scale = 1:41.2

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.32 | Vert(CT) | -0.10 | 4-5 | >786 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.18 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 46 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 9-3-9 oc

bracing.

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=259 (LC 10)

Max Uplift 4=-179 (LC 10), 5=-179 (LC 9)

Max Grav 4=625 (LC 36), 5=682 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-774/536, 2-3=-39/42, 3-4=-358/127, TOP CHORD

1-5=-445/180, 1-6=0/0

BOT CHORD 4-5=-608/605

WEBS 2-4=-674/681, 2-5=-558/724

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 179 lb uplift at joint 4 and 179 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20

Concentrated Loads (lb)

Vert: 1=-2

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-7=-155, 7=-155-to-2=-142, 2=-142-

to-8=-130, 8=-130-to-3=-117



June 6,2025



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

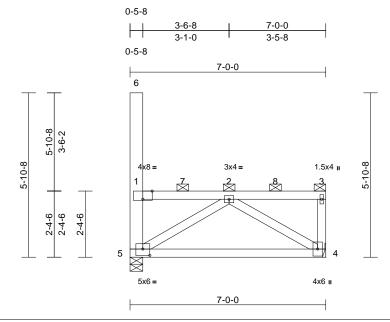
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----|---------|-------|------------|-----|-----|--------------------------|-----------|
| 250 | 03401-A | M69 | Flat | 1 | 1 | Job Reference (optional) | 173987992 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:24 ID:uBk2inIQBv5KVHCtaSmzp6zEuO8-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:41.2

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.32 | Vert(CT) | -0.10 | 4-5 | >786 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.18 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 47 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 9-4-10 oc

bracing

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=258 (LC 10)

Max Uplift 4=-179 (LC 10), 5=-179 (LC 9)

Max Grav 4=625 (LC 36), 5=682 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-756/524, 2-3=-40/43, 3-4=-358/127,

1-5=-445/179, 1-6=0/0

BOT CHORD 4-5=-597/593

WEBS 2-4=-663/672, 2-5=-551/714

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 179 lb uplift at joint 4 and 179 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20 Concentrated Loads (lb)

Vert: 1=-2

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-7=-155, 7=-155-to-2=-142, 2=-142-

to-8=-130, 8=-130-to-3=-117



June 6,2025



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

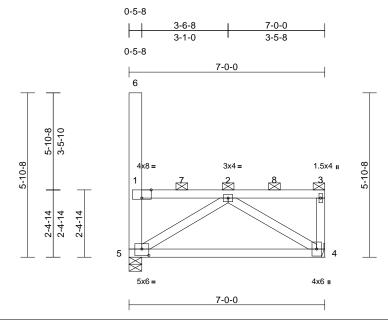
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|----------|
| 2503401-A | M70 | Flat | 1 | 1 | Job Reference (optional) | 73987993 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:24 $ID: y38 jswxqeW_Cobsly6XUwHzEuNv-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$

Page: 1



Scale = 1:41.2

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.32 | Vert(CT) | -0.10 | 4-5 | >786 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.18 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 47 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F

2.0E BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 9-5-9 oc

bracing

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=-257 (LC 9)

Max Uplift 4=-179 (LC 10), 5=-179 (LC 9)

Max Grav 4=625 (LC 36), 5=682 (LC 33)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-738/513, 2-3=-41/44, 3-4=-358/127,

1-5=-444/178, 1-6=0/0

BOT CHORD 4-5=-587/582

WEBS 2-4=-653/662, 2-5=-544/704

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 179 lb uplift at joint 4 and 179 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20

Concentrated Loads (lb) Vert: 1=-2

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-7=-155, 7=-155-to-2=-142, 2=-142-

to-8=-130, 8=-130-to-3=-117



June 6,2025



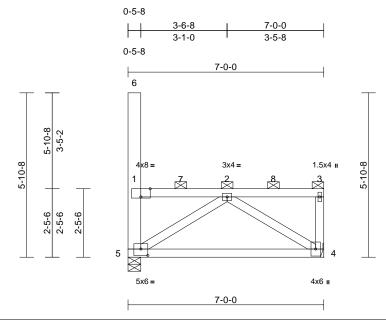
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M71 | Flat | 1 | 1 | Job Reference (optional) | 173987994 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:24 Page: 1



Scale = 1:41.2

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.32 | Vert(CT) | -0.10 | 4-5 | >786 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.18 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 47 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F 2.0E

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

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

bracing

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=-257 (LC 9)

Max Uplift 4=-179 (LC 10), 5=-179 (LC 9)

Max Grav 4=625 (LC 36), 5=682 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-722/502, 2-3=-42/45, 3-4=-358/127,

1-5=-444/178, 1-6=0/0

BOT CHORD 4-5=-576/571

WEBS 2-4=-643/653, 2-5=-537/694

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- The Fabrication Tolerance at joint 1 = 8%

- 6) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 179 lb uplift at joint 4 and 179 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20

Concentrated Loads (lb) Vert: 1=-2

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-7=-155, 7=-155-to-2=-142, 2=-142-

to-8=-130, 8=-130-to-3=-117



June 6,2025



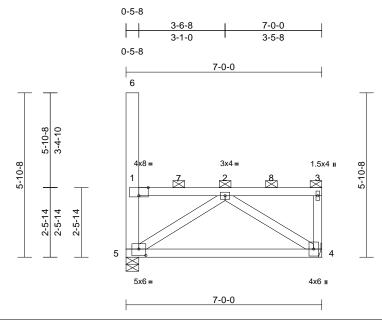
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M72 | Flat | 1 | 1 | Job Reference (optional) | 173987995 |

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Scale = 1:41.2

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.32 | Vert(CT) | -0.10 | 4-5 | >786 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.17 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 47 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 9-7-8 oc

bracing.

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=-256 (LC 9)

Max Uplift 4=-178 (LC 10), 5=-178 (LC 9)

Max Grav 4=625 (LC 36), 5=682 (LC 33)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=-706/492, 2-3=-42/46, 3-4=-358/126, TOP CHORD

1-5=-444/177, 1-6=0/0

BOT CHORD 4-5=-567/561 WEBS 2-4=-633/645, 2-5=-530/685

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 178 lb uplift at joint 4 and 178 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20

Concentrated Loads (lb)

Vert: 1=-2

Trapezoidal Loads (lb/ft) Vert: 1=-168-to-7=-155, 7=-155-to-2=-142, 2=-142-

to-8=-130, 8=-130-to-3=-117



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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.

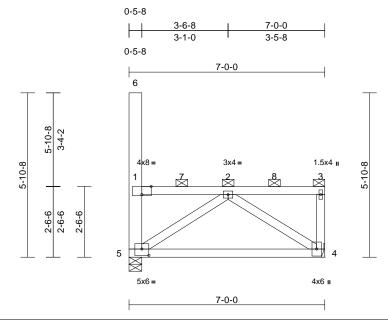
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M73 | Flat | 1 | 1 | Job Reference (optional) | 173987996 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:25 ID:CzOXHVhnV3FdhtRdy3eUlszEuLe-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:41.2

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.32 | Vert(CT) | -0.10 | 4-5 | >786 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.17 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 47 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F 2.0E

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 9-8-9 oc

bracing

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=256 (LC 10)

Max Uplift 4=-178 (LC 10), 5=-178 (LC 9)

Max Grav 4=625 (LC 36), 5=682 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-690/481, 2-3=-43/47, 3-4=-357/126,

1-5=-444/177, 1-6=0/0

BOT CHORD 4-5=-557/551

WEBS 2-4=-624/637, 2-5=-524/676

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 178 lb uplift at joint 4 and 178 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20 Concentrated Loads (lb)

Vert: 1=-2

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-7=-155, 7=-155-to-2=-142, 2=-142-

to-8=-130, 8=-130-to-3=-117



June 6,2025



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

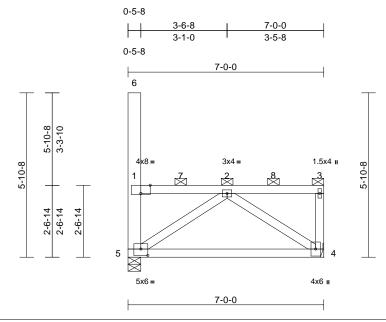
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M74 | Flat | 1 | 1 | Job Reference (optional) | 173987997 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:25 ID:rG74pbqJgllw8jMxfasJoOzEuLS-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:41.2

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.31 | Vert(CT) | -0.10 | 4-5 | >786 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.17 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 47 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F 2.0E

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 9-9-7 oc

bracing.

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=255 (LC 10)

Max Uplift 4=-178 (LC 10), 5=-178 (LC 9)

Max Grav 4=625 (LC 36), 5=682 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-675/472, 2-3=-44/48, 3-4=-357/126,

1-5=-443/176, 1-6=0/0

BOT CHORD 4-5=-548/541

WEBS 2-4=-616/629, 2-5=-518/668

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 178 lb uplift at joint 4 and 178 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20

Concentrated Loads (lb)

Vert: 1=-2

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-7=-155, 7=-155-to-2=-142, 2=-142-

to-8=-130, 8=-130-to-3=-117



June 6,2025



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

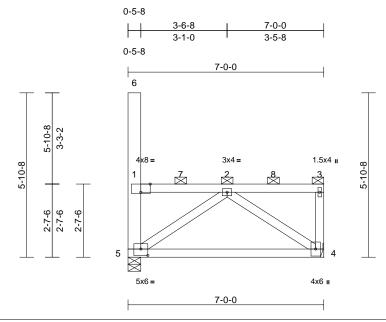
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|--------|------|-------|------------|-----|-----|--------------------------|-----------|
| 250340 | 01-A | M75 | Flat | 1 | 1 | Job Reference (optional) | 173987998 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:25 ID:v9Xlyk0j8MeoR0?p1EdquYzEuLD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:41.2

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.31 | Vert(CT) | -0.10 | 4-5 | >786 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.17 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 47 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F 2.0E

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

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

bracing

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=-255 (LC 11)

Max Uplift 4=-178 (LC 10), 5=-178 (LC 9)

Max Grav 4=625 (LC 36), 5=682 (LC 33)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-660/462, 2-3=-45/49, 3-4=-357/126,

1-5=-443/176, 1-6=0/0

BOT CHORD 4-5=-540/532

WEBS 2-4=-607/621, 2-5=-512/660

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 178 lb uplift at joint 4 and 178 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20 Concentrated Loads (lb)

Vert: 1=-2

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-7=-155, 7=-155-to-2=-142, 2=-142-

to-8=-130, 8=-130-to-3=-117



June 6,2025



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

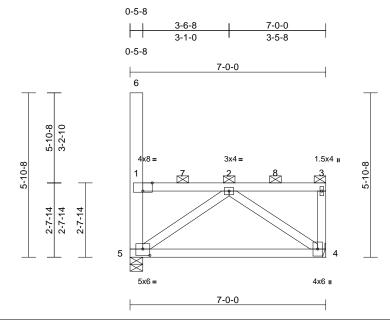
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M76 | Flat | 1 | 1 | Job Reference (optional) | 173987999 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:25 ID:z2xQ6sC7czXgkKfiPuOL?jzEuL_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:41.2

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.45 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.31 | Vert(CT) | -0.10 | 4-5 | >786 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.17 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 47 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 9-11-5 oc

bracing.

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=254 (LC 10)

Max Uplift 4=-178 (LC 10), 5=-178 (LC 9)

Max Grav 4=625 (LC 36), 5=682 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-646/453, 2-3=-46/49, 3-4=-357/126,

1-5=-443/175, 1-6=0/0

BOT CHORD 4-5=-531/523 WEBS 2-4=-599/614, 2-5=-507/652

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 178 lb uplift at joint 4 and 178 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20

Concentrated Loads (lb) Vert: 1=-2

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-7=-155, 7=-155-to-2=-142, 2=-142-

to-8=-130, 8=-130-to-3=-117



June 6,2025



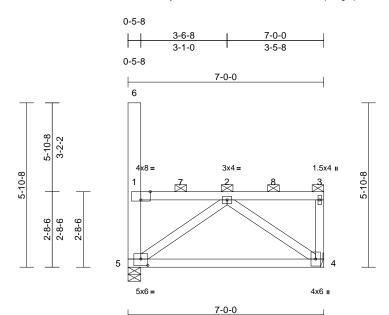
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M77 | Flat | 1 | 1 | Job Reference (optional) | 173988000 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:25 ID:dLfydzLfnf2zAAZ?6Pc9UEzEuKo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:41.2

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.31 | Vert(CT) | -0.10 | 4-5 | >786 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | YES | WB | 0.17 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 48 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

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

bracing.

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=253 (LC 10)

Max Uplift 4=-177 (LC 10), 5=-177 (LC 9)

Max Grav 4=639 (LC 36), 5=683 (LC 33)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=-633/445, 2-3=-46/50, 3-4=-370/126, TOP CHORD

1-5=-443/174, 1-6=0/0

BOT CHORD 4-5=-523/514

WEBS 2-4=-591/607, 2-5=-503/645

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 177 lb uplift at joint 4 and 177 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20 Concentrated Loads (lb)

Vert: 1=-2, 3=-12

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-7=-155, 7=-155-to-2=-143, 2=-143-

to-8=-130, 8=-130-to-3=-118



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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.

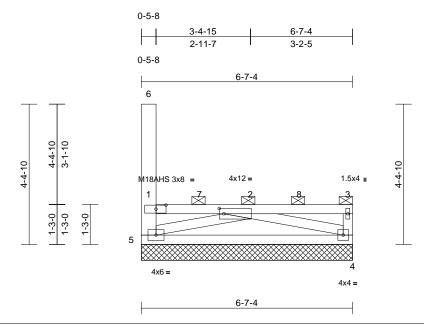
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|----------------------|-----|-----|--------------------------|-----------|
| 2503401-A | M78 | Flat Supported Gable | 1 | 1 | Job Reference (optional) | 173988001 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:26 $ID: krysLPVpjfh7EA3VNeLCW_zEuKb-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f$

Page: 1



Scale = 1:36

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|-----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.49 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.42 | Vert(TL) | n/a | - | n/a | 999 | M18AHS | 186/179 |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.22 | Horiz(TL) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 40 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F

2.0E BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 7-6-13 oc

bracing

REACTIONS (size) 4=6-7-4, 5=6-7-4

Max Horiz 5=-190 (LC 11)

Max Uplift 4=-121 (LC 10), 5=-125 (LC 9)

Max Grav 4=597 (LC 37), 5=668 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-973/781, 2-3=-55/19, 1-5=-457/179, TOP CHORD

1-6=0/0

BOT CHORD 4-5=-927/1001

WEBS 2-4=-1026/949, 2-5=-894/919, 3-4=-365/124

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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.

- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10. Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 125 lb uplift at joint 5 and 121 lb uplift at joint 4.
- 12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 13) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 14) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads
- 15) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20

Concentrated Loads (lb)

Vert: 1=-2

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-7=-155, 7=-155-to-2=-143, 2=-143to-8=-132. 8=-132-to-3=-120



June 6,2025



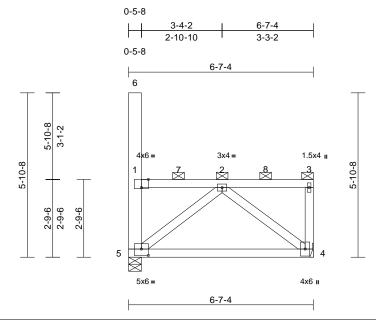
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M79 | Flat | 1 | 1 | Job Reference (optional) | 173988002 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:26 $ID: O9gPtWeLuLCQg0_p49Z0?WzEuKP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff$ Page: 1



Scale = 1:41.2

Plate Offsets (X, Y): [1:0-3-0,Edge], [5:0-3-0,0-2-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.30 | Vert(CT) | -0.08 | 4-5 | >946 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.16 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 46 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

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

bracing

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=-252 (LC 11)

Max Uplift 4=-181 (LC 10), 5=-181 (LC 9)

Max Grav 4=609 (LC 36), 5=660 (LC 33)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=-604/424, 2-3=-48/52, 3-4=-354/121,

1-5=-431/171, 1-6=0/0 4-5=-484/485

BOT CHORD WEBS 2-4=-573/577, 2-5=-461/615

NOTES

TOP CHORD

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 181 lb uplift at joint 4 and 181 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20

Concentrated Loads (lb)

Vert: 1=-2

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-7=-156, 7=-156-to-2=-144, 2=-144-

to-8=-132, 8=-132-to-3=-120



June 6,2025



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

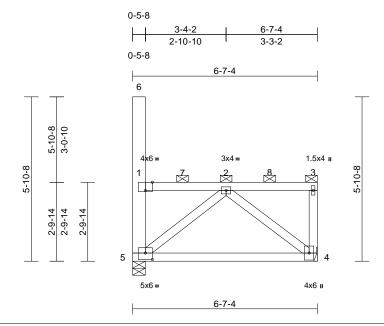
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M80 | Flat | 1 | 1 | Job Reference (optional) | 173988003 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:26 ID:i7mclnziDqxyFmplyY0awVzEuIi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:41.2

Plate Offsets (X, Y): [1:0-3-0,Edge], [5:0-3-0,0-2-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defI | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.30 | Vert(CT) | -0.08 | 4-5 | >946 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.16 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 46 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1 6F BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

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

bracing

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=-252 (LC 9)

Max Uplift 4=-181 (LC 10), 5=-181 (LC 9)

Max Grav 4=609 (LC 36), 5=660 (LC 33)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=-591/416, 2-3=-49/53, 3-4=-354/121,

1-5=-431/170, 1-6=0/0 BOT CHORD 4-5=-477/477

WEBS 2-4=-566/571, 2-5=-457/609

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 181 lb uplift at joint 4 and 181 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20 Concentrated Loads (lb)

Vert: 1=-2

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-7=-156, 7=-156-to-2=-144, 2=-144-

to-8=-132, 8=-132-to-3=-120



June 6,2025



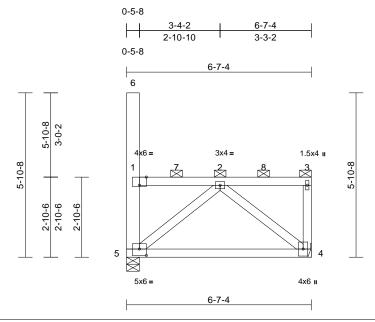
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M81 | Flat | 1 | 1 | Job Reference (optional) | 173988004 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:26 ID:LRU8Gu6EPWRFhck3f3DOP1zEuIW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff Page: 1



Scale = 1:41.2

Plate Offsets (X, Y): [1:0-3-0,Edge], [5:0-3-0,0-2-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.30 | Vert(CT) | -0.08 | 4-5 | >946 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.16 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 46 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

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

bracing.

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=-251 (LC 9)

Max Uplift 4=-180 (LC 10), 5=-180 (LC 9)

Max Grav 4=609 (LC 36), 5=660 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-579/409, 2-3=-50/54, 3-4=-354/121, TOP CHORD

1-5=-431/170, 1-6=0/0

BOT CHORD 4-5=-471/470 WEBS 2-4=-559/566, 2-5=-453/603

NOTES

- Unbalanced roof live loads have been considered for 1)
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 180 lb uplift at joint 4 and 180 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20

Concentrated Loads (lb)

Vert: 1=-2

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-7=-156, 7=-156-to-2=-144, 2=-144to-8=-132, 8=-132-to-3=-120



June 6,2025



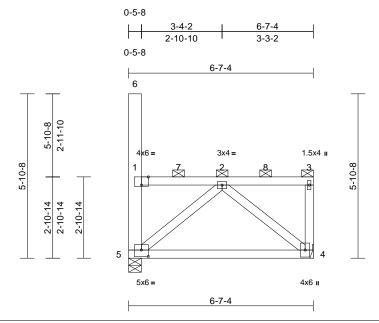
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M82 | Flat | 1 | 1 | Job Reference (optional) | 173988005 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:27 ID:?IChn_FmaCyY7SeNMbRCuZzEuIK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:41.2

Plate Offsets (X, Y): [1:0-3-0,Edge], [5:0-3-0,0-2-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.30 | Vert(CT) | -0.08 | 4-5 | >946 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.16 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 47 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

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

bracing.

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=-250 (LC 9)

Max Uplift 4=-180 (LC 10), 5=-180 (LC 9)

Max Grav 4=610 (LC 36), 5=658 (LC 33)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=-568/402, 2-3=-50/55, 3-4=-355/121,

1-5=-428/169, 1-6=0/0

BOT CHORD 4-5=-464/463

WEBS 2-4=-553/560, 2-5=-449/598

NOTES

TOP CHORD

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 180 lb uplift at joint 4 and 180 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20 Concentrated Loads (lb)

Vert: 1=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-167-to-7=-155, 7=-155-to-2=-144, 2=-144-

to-8=-133, 8=-133-to-3=-121



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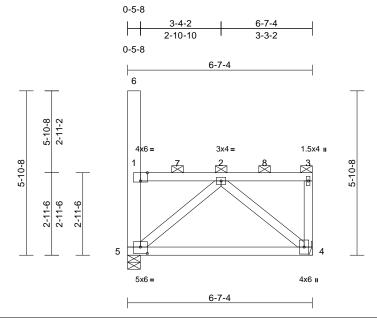
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M83 | Flat | 1 | 1 | Job Reference (optional) | 173988006 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:27 ID:e3xDI5PIluTrZIZg36f0N5zEuI8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:41.2

Plate Offsets (X, Y): [1:0-3-0,Edge], [5:0-3-0,0-2-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.30 | Vert(CT) | -0.08 | 4-5 | >946 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.16 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 47 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1 6F BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

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

bracing.

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=250 (LC 10)

Max Uplift 4=-180 (LC 10), 5=-180 (LC 9)

Max Grav 4=611 (LC 36), 5=657 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-557/395, 2-3=-51/55, 3-4=-356/121,

1-5=-427/168, 1-6=0/0

BOT CHORD 4-5=-458/456

WEBS 2-4=-546/555, 2-5=-445/592

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 180 lb uplift at joint 4 and 180 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20

Concentrated Loads (lb) Vert: 3=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-167-to-7=-155, 7=-155-to-2=-144, 2=-144-

to-8=-133, 8=-133-to-3=-121



June 6,2025



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

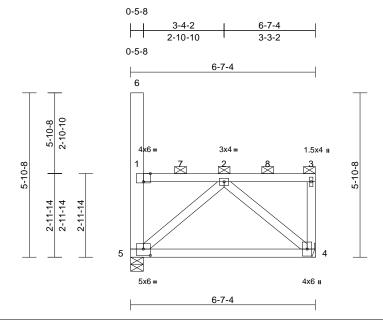
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M84 | Flat | 1 | 1 | Job Reference (optional) | 173988007 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:27

Page: 1



Scale = 1:41.2

Plate Offsets (X, Y): [1:0-3-0,Edge], [5:0-3-0,0-2-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.29 | Vert(CT) | -0.08 | 4-5 | >946 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.16 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 47 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1 6F BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

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

bracing

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=249 (LC 12)

Max Uplift 4=-180 (LC 10), 5=-180 (LC 9)

Max Grav 4=608 (LC 36), 5=660 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-546/388, 2-3=-52/56, 3-4=-353/121, TOP CHORD

1-5=-430/168, 1-6=0/0

BOT CHORD 4-5=-452/449 WEBS 2-4=-540/550, 2-5=-441/587

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 180 lb uplift at joint 4 and 180 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20

Trapezoidal Loads (lb/ft) Vert: 1=-169-to-7=-156, 7=-156-to-2=-144, 2=-144-

to-8=-132, 8=-132-to-3=-119



June 6,2025



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

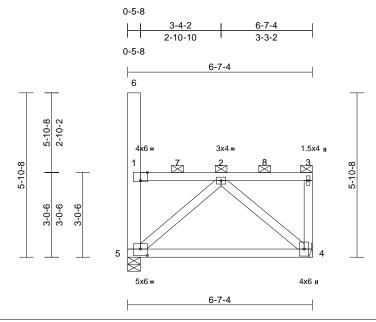
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M85 | Flat | 1 | 1 | Job Reference (optional) | 173988008 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:27 ID:PsxgYeizsZcl38zU1sctuMzEuHl-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:41.2

Plate Offsets (X, Y): [1:0-3-0,Edge], [5:0-3-0,0-2-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.29 | Vert(CT) | -0.08 | 4-5 | >946 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.16 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 47 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F 2.0E

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

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

bracing

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=-249 (LC 9)

Max Uplift 4=-179 (LC 10), 5=-179 (LC 9)

Max Grav 4=610 (LC 36), 5=658 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-535/381, 2-3=-53/57, 3-4=-354/120, TOP CHORD

1-5=-428/167, 1-6=0/0 **BOT CHORD** 4-5=-446/442

WEBS 2-4=-534/545, 2-5=-438/582

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 179 lb uplift at joint 4 and 179 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20

Concentrated Loads (lb)

Vert: 3=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-7=-156, 7=-156-to-2=-144, 2=-144-

to-8=-132, 8=-132-to-3=-120



June 6,2025



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

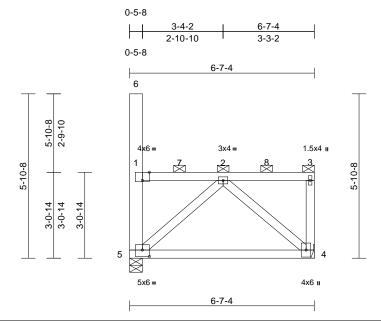
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M86 | Flat | 1 | 1 | Job Reference (optional) | 173988009 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:28 ID:3AgC3lrV1F7bV_unkNpiNuzEuHZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:41.2

Plate Offsets (X, Y): [1:0-3-0,Edge], [5:0-3-0,0-2-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.29 | Vert(CT) | -0.08 | 4-5 | >946 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.16 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 47 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F 2.0E

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

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

bracing.

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=248 (LC 12)

Max Uplift 4=-179 (LC 10), 5=-179 (LC 9)

Max Grav 4=611 (LC 36), 5=657 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-525/375, 2-3=-54/58, 3-4=-355/120,

1-5=-427/166, 1-6=0/0

BOT CHORD 4-5=-441/436

WEBS 2-4=-529/541, 2-5=-435/577

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 179 lb uplift at joint 4 and 179 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20 Concentrated Loads (lb)

Vert: 3=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-167-to-7=-155, 7=-155-to-2=-144, 2=-144-

to-8=-133, 8=-133-to-3=-121



June 6,2025



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

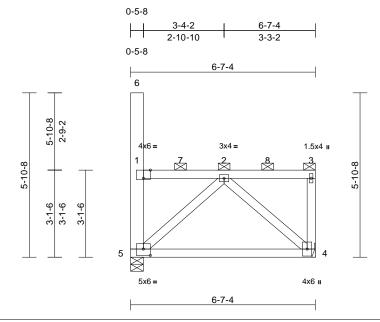
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M87 | Flat | 1 | 1 | Job Reference (optional) | 173988010 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:28 ID:iUOkar?1Cxeuyqp5Ru1WtQzEuHN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:41.2

Plate Offsets (X, Y): [1:0-3-0,Edge], [5:0-3-0,0-2-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.29 | Vert(CT) | -0.08 | 4-5 | >946 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.16 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 47 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F 2.0E

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

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

bracing

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=-248 (LC 11)

Max Uplift 4=-179 (LC 10), 5=-179 (LC 9)

Max Grav 4=609 (LC 36), 5=658 (LC 33)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=-515/368, 2-3=-54/59, 3-4=-353/120, TOP CHORD

1-5=-428/165, 1-6=0/0

BOT CHORD 4-5=-435/430

WEBS 2-4=-523/536, 2-5=-431/572

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 179 lb uplift at joint 4 and 179 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-7=-156, 7=-156-to-2=-144, 2=-144-

to-8=-132, 8=-132-to-3=-120



June 6,2025



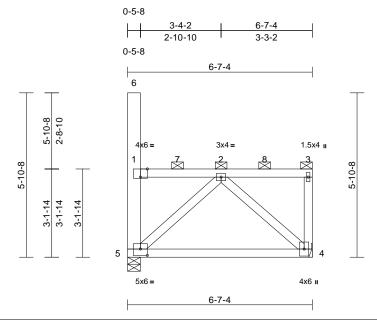
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M88 | Flat | 1 | 1 | Job Reference (optional) | 173988011 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:28 $ID: IAE1 We 9 pv FPvd_tn Gr HoRNz Eu H 9-Rf C? Ps B70 Hq3NSgPqn L8w 3uITXb GKWr CDoi 7J4z JC? full for the control of the co$ Page: 1



Scale = 1:41.2

Plate Offsets (X, Y): [1:0-3-0,Edge], [5:0-3-0,0-2-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.29 | Vert(CT) | -0.08 | 4-5 | >946 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.16 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 47 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

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

bracing

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=-247 (LC 11)

Max Uplift 4=-179 (LC 10), 5=-179 (LC 9)

Max Grav 4=609 (LC 36), 5=658 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-505/362, 2-3=-55/60, 3-4=-353/120,

1-5=-428/165, 1-6=0/0 **BOT CHORD** 4-5=-430/424

WEBS 2-4=-518/532, 2-5=-428/568

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 179 lb uplift at joint 4 and 179 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20 Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-7=-156, 7=-156-to-2=-144, 2=-144-

to-8=-132, 8=-132-to-3=-120



June 6,2025



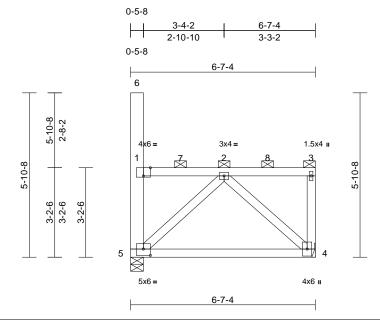
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M89 | Flat | 1 | 1 | Job Reference (optional) | 173988012 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:28 ID:QgXyF4JzrE23h_NHW30rT7zEuGy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:41.2

Plate Offsets (X, Y): [1:0-3-0,Edge], [5:0-3-0,0-2-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.29 | Vert(CT) | -0.08 | 4-5 | >946 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.16 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 48 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

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

bracing

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=-246 (LC 9)

Max Uplift 4=-178 (LC 10), 5=-178 (LC 9)

Max Grav 4=608 (LC 36), 5=660 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-495/356, 2-3=-56/61, 3-4=-352/120, 1-5=-429/164, 1-6=0/0

BOT CHORD 4-5=-425/418

WEBS 2-4=-512/528, 2-5=-425/563

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 178 lb uplift at joint 4 and 178 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20 Trapezoidal Loads (lb/ft)

Vert: 1=-169-to-7=-156, 7=-156-to-2=-144, 2=-144-

to-8=-132, 8=-132-to-3=-119



June 6,2025



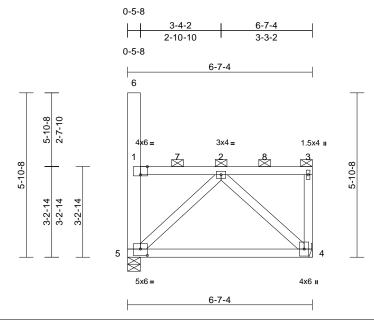
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M90 | Flat | 1 | 1 | Job Reference (optional) | 173988013 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:28 $ID: 3_FUmBTU1wYM7qIbDbEfyfzEuGm-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff$ Page: 1



Scale = 1:41.2

Plate Offsets (X, Y): [1:0-3-0,Edge], [5:0-3-0,0-2-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.29 | Vert(CT) | -0.08 | 4-5 | >946 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.16 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 48 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

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

bracing.

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=246 (LC 10)

Max Uplift 4=-178 (LC 10), 5=-178 (LC 9)

Max Grav 4=610 (LC 36), 5=658 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-486/350, 2-3=-57/62, 3-4=-354/120,

1-5=-428/163, 1-6=0/0 **BOT CHORD** 4-5=-420/413

WEBS 2-4=-507/524, 2-5=-422/559

NOTES

TOP CHORD

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 178 lb uplift at joint 4 and 178 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20

Concentrated Loads (lb) Vert: 3=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-7=-156, 7=-156-to-2=-144, 2=-144-

to-8=-132, 8=-132-to-3=-120



June 6,2025



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

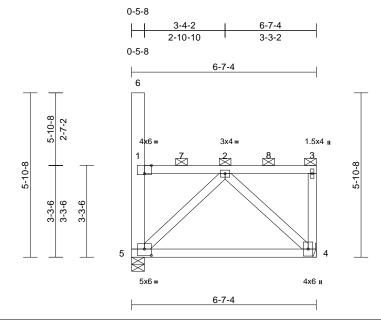
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M91 | Flat | 1 | 1 | Job Reference (optional) | 173988014 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:29

Page: 1



Scale = 1:41.2

Plate Offsets (X, Y): [1:0-3-0,Edge], [5:0-3-0,0-2-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.29 | Vert(CT) | -0.08 | 4-5 | >946 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.16 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 48 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

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

bracing.

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=-245 (LC 11)

Max Uplift 4=-178 (LC 10), 5=-178 (LC 9)

Max Grav 4=611 (LC 36), 5=657 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-477/345, 2-3=-58/62, 3-4=-355/119,

1-5=-426/162, 1-6=0/0

BOT CHORD 4-5=-415/407

WEBS 2-4=-502/520, 2-5=-419/555

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 178 lb uplift at joint 4 and 178 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20

Concentrated Loads (lb)

Vert: 3=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-167-to-7=-155, 7=-155-to-2=-144, 2=-144-

to-8=-133, 8=-133-to-3=-121



June 6,2025



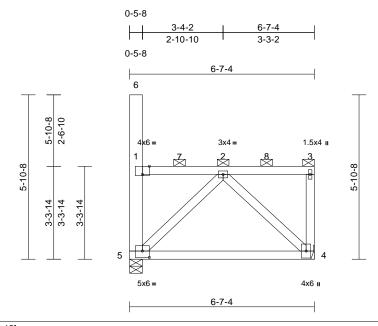
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M92 | Flat | 1 | 1 | Job Reference (optional) | 173988015 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:29 ID:uP8Bb2lwc?S5OMY04w82NVzEuGP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:41.2

Plate Offsets (X, Y): [1:0-3-0,Edge], [5:0-3-0,0-2-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.29 | Vert(CT) | -0.08 | 4-5 | >946 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.16 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 48 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

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

bracing.

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=245 (LC 10)

Max Uplift 4=-178 (LC 10), 5=-178 (LC 9)

Max Grav 4=608 (LC 36), 5=660 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-468/339, 2-3=-58/63, 3-4=-352/119,

1-5=-429/161, 1-6=0/0

BOT CHORD 4-5=-410/402 WEBS 2-4=-497/516, 2-5=-416/551

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 178 lb uplift at joint 4 and 178 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft) Vert: 4-5=-20

Trapezoidal Loads (lb/ft)

Vert: 1=-169-to-7=-156, 7=-156-to-2=-144, 2=-144-

to-8=-132, 8=-132-to-3=-119



June 6,2025



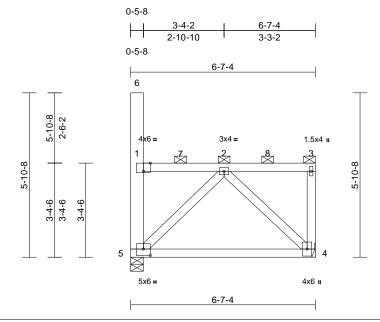
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M93 | Flat | 1 | 1 | Job Reference (optional) | 173988016 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:29 ID:Q19458LHqMI?N2Nd?Q2nP2zEuFd-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:41.2

Plate Offsets (X, Y): [1:0-3-0,Edge], [5:0-3-0,0-2-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.29 | Vert(CT) | -0.08 | 4-5 | >946 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.16 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 48 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

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

bracing.

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=244 (LC 12)

Max Uplift 4=-177 (LC 10), 5=-177 (LC 9)

Max Grav 4=610 (LC 36), 5=658 (LC 33)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=-459/334, 2-3=-59/64, 3-4=-354/119,

1-5=-427/161, 1-6=0/0

BOT CHORD 4-5=-406/397

WEBS 2-4=-493/512, 2-5=-414/547

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 177 lb uplift at joint 4 and 177 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20 Concentrated Loads (lb)

Vert: 3=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-7=-156, 7=-156-to-2=-144, 2=-144-

to-8=-132, 8=-132-to-3=-120



June 6,2025



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

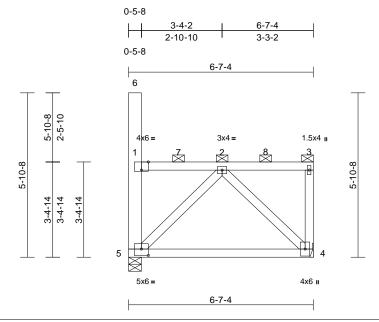
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M94 | Flat | 1 | 1 | Job Reference (optional) | 173988017 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu Jun 05 07:14:29 ID:4LudcFVp?2GlqulwixGbuazEuFR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:41.2

Plate Offsets (X, Y): [1:0-3-0,Edge], [5:0-3-0,0-2-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.29 | Vert(CT) | -0.08 | 4-5 | >946 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.16 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 48 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

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

bracing

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=-243 (LC 9)

Max Uplift 4=-177 (LC 10), 5=-177 (LC 9)

Max Grav 4=608 (LC 36), 5=653 (LC 33)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=-451/329, 2-3=-60/65, 3-4=-354/119,

1-5=-424/160, 1-6=0/0

BOT CHORD 4-5=-401/392 WEBS 2-4=-488/509, 2-5=-409/543

NOTES

TOP CHORD

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 177 lb uplift at joint 4 and 177 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20

Concentrated Loads (lb)

Vert: 3=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-165-to-7=-154, 7=-154-to-2=-143, 2=-143-

to-8=-132, 8=-132-to-3=-120



June 6,2025



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

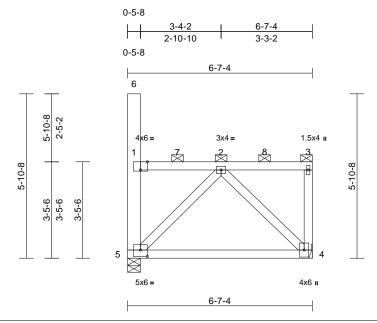
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M95 | Flat | 1 | 1 | Job Reference (optional) | 173988018 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:30 ID: UB5Bp4kMIBnSDypmt8dHiozEuF7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffcprofited and the property of th

Page: 1



Scale = 1:41.2

Plate Offsets (X, Y): [1:0-3-0,Edge], [5:0-3-0,0-2-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.29 | Vert(CT) | -0.08 | 4-5 | >946 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.16 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 48 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

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

bracing.

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=243 (LC 12)

Max Uplift 4=-177 (LC 10), 5=-177 (LC 9)

Max Grav 4=608 (LC 36), 5=660 (LC 33)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-443/324, 2-3=-61/66, 3-4=-352/119,

1-5=-428/159, 1-6=0/0 **BOT CHORD** 4-5=-397/387

WEBS 2-4=-483/505, 2-5=-408/540

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 177 lb uplift at joint 5 and 177 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20 Trapezoidal Loads (lb/ft)

Vert: 1=-169-to-7=-156, 7=-156-to-2=-144, 2=-144-

to-8=-132, 8=-132-to-3=-119



June 6,2025



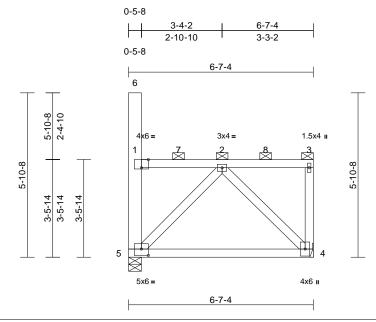
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M96 | Flat | 1 | 1 | Job Reference (optional) | 173988019 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:30 ID:0G3EAZwOX6oB8Q2rpVv1MAzEuEt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:41.2

Plate Offsets (X, Y): [1:0-3-0,Edge], [5:0-3-0,0-2-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defI | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.28 | Vert(CT) | -0.08 | 4-5 | >946 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.16 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 49 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

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

bracing.

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=-242 (LC 9)

Max Uplift 4=-176 (LC 10), 5=-176 (LC 9)

Max Grav 4=612 (LC 36), 5=664 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-435/319, 2-3=-62/67, 3-4=-354/119,

1-5=-431/158, 1-6=0/0

BOT CHORD 4-5=-393/382

WEBS 2-4=-479/502, 2-5=-408/536

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 176 lb uplift at joint 5 and 176 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20 Concentrated Loads (lb)

Vert: 1=-1, 3=-1

Trapezoidal Loads (lb/ft) Vert: 1=-170-to-7=-158, 7=-158-to-2=-145, 2=-145-

to-8=-132, 8=-132-to-3=-120



June 6,2025



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

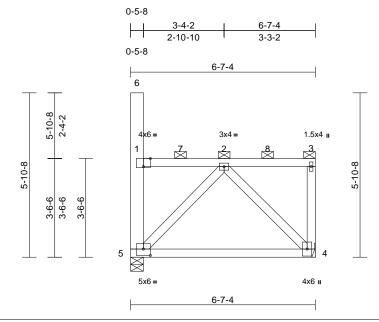
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M97 | Flat | 1 | 1 | Job Reference (optional) | 173988020 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:30 ID:49TvJh6o?jh3RjhkB9gYSKzEuEe-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:41.2

Plate Offsets (X, Y): [1:0-3-0,Edge], [5:0-3-0,0-2-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.28 | Vert(CT) | -0.08 | 4-5 | >946 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.16 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 49 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

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

bracing

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=242 (LC 10)

Max Uplift 4=-176 (LC 10), 5=-176 (LC 9)

Max Grav 4=610 (LC 36), 5=658 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-427/314, 2-3=-62/68, 3-4=-354/118,

1-5=-426/157, 1-6=0/0

BOT CHORD 4-5=-389/378 WEBS 2-4=-475/499, 2-5=-404/533

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 176 lb uplift at joint 4 and 176 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
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- 10) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
- 11) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20

Concentrated Loads (lb)

Vert: 1=-1

Trapezoidal Loads (lb/ft)

Vert: 1=-167-to-7=-155, 7=-155-to-2=-144, 2=-144-

to-8=-133, 8=-133-to-3=-121



June 6,2025



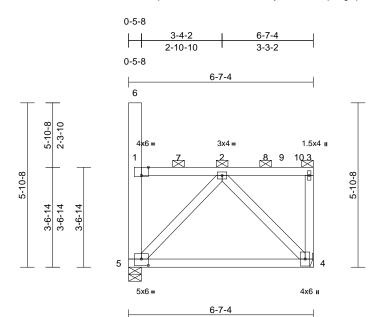
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Discover Pet Spa | |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| 2503401-A | M98 | Flat | 1 | 1 | Job Reference (optional) | 173988021 |

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Thu Jun 05 07:14:30 ID:zpXHDbCdBtAvrFJZvQ0GRKzEuSj-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:41.2

Plate Offsets (X, Y): [1:0-3-0,Edge], [5:0-3-0,0-2-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.45 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.28 | Vert(CT) | -0.08 | 4-5 | >946 | 180 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 0.16 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IBC2018/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 49 lb | FT = 12% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.6E BOT CHORD 2x4 SP 1650F 1.6E

WEBS 2x4 SP No.2 *Except* 6-5:2x6 SP 2400F

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 1-6,

except end verticals.

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

bracing

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=-241 (LC 9)

Max Uplift 4=-176 (LC 10), 5=-176 (LC 9)

Max Grav 4=598 (LC 36), 5=659 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-419/309, 2-3=-63/69, 3-4=-342/118,

1-5=-428/157, 1-6=0/0

BOT CHORD 4-5=-385/373 WEBS 2-4=-470/496, 2-5=-400/530

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
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LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 4-5=-20

Concentrated Loads (lb)

Vert: 3=-4

Trapezoidal Loads (lb/ft)

Vert: 1=-168-to-7=-156, 7=-156-to-2=-145, 2=-145to-8=-133, 8=-133-to-9=-129, 9=-114-to-10=-107,

10=-98-to-3=-96



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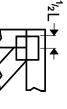
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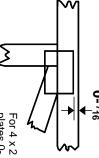


Symbols

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- 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



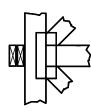
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

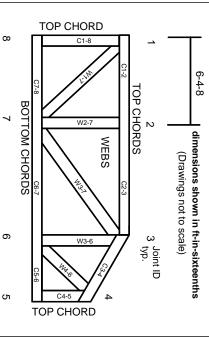
Industry Standards:

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.

'n

- 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.
- 17. 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.