| Job | Truss | Truss Type | Qty | Ply | DIVERSIFIED/LANE AVE. |
|---|---|---|---|---|---|
| B146769 | T01 | FINK | 13 | 1 | Job Reference (optional) |

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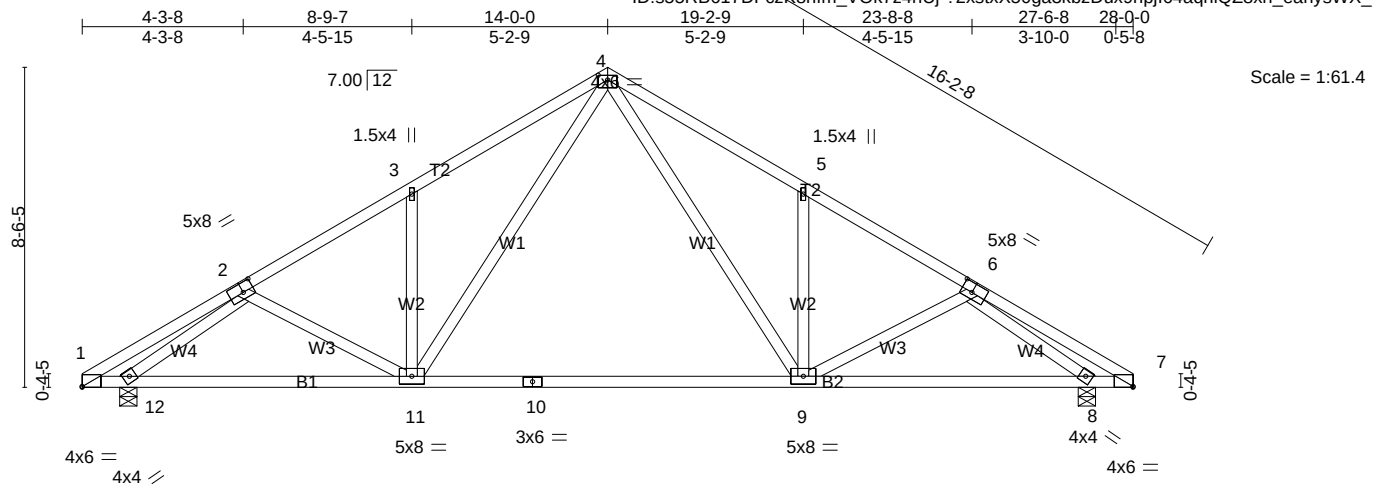


Plate Offsets (X,Y): [1:0-0-0,0-0-4], [2:0-3-8,0-3-0], [4:0-3-0,0-1-8], [6:0-3-8,0-3-0], [7:0-0-0,0-0-4]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 46.2 | Plates Increase | 1.15 | TC | 0.91 | Vert(LL) | -0.24 | 9-11 | >999 | 240 | MT20 | 197/144 |
| (Ground Snow=60.0) | | Lumber Increase | 1.15 | BC | 0.71 | Vert(TL) | -0.64 | 9-11 | >489 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.66 | Horz(TL) | 0.08 | 8 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2009/TPI2007 | (Matrix-M) | | | | | | | Weight: 122 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER**
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

**BRACING**
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
8-8-0 oc bracing: 11-12.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 12=1854/0-5-8 (min. 0-2-15), 8=1854/0-5-8 (min. 0-2-15)
Max Horz 12=-316(LC 5)
Max Uplift 12=-394(LC 7), 8=-394(LC 8)

**FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-256/19, 2-3=-2263/441, 3-4=-2313/627, 4-5=-2313/628, 5-6=-2263/443, 6-7=-256/7
BOT CHORD 1-12=-82/191, 11-12=-445/1900, 10-11=-135/1342, 9-10=-135/1342, 8-9=-320/1900, 7-8=-63/191
WEBS 4-9=-331/1154, 5-9=-775/325, 6-9=-50/154, 4-11=-330/1154, 3-11=-775/325, 2-11=-50/152, 2-12=-2281/532, 6-8=-2281/526

**NOTES**
1) Wind: ASCE 7-05; 100mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-05; Pg=60.0 psf (ground snow); Ps=46.2 psf (roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
3) Roof design snow load has been reduced to account for slope.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12 and 8. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-112, 4-7=-112, 13-16=-20
2) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-112, 3-4=-162, 4-7=-48, 13-16=-20
3) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-48, 4-5=-162, 5-7=-112, 13-16=-20
4) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-20, 4-7=-20, 13-16=-40

Continued on page 2

**LOAD CASE(S)**

5) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-13, 4-7=26, 12-13=21, 12-16=-12
Horz: 1-4=4, 4-7=34

6) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=26, 4-7=-13, 8-13=-12, 8-16=21
Horz: 1-4=-34, 4-7=-4

7) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=43, 4-7=27, 12-13=16, 12-16=-12
Horz: 1-4=-51, 4-7=36

8) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=27, 4-7=43, 8-13=-12, 8-16=16
Horz: 1-4=-36, 4-7=51

9) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=21, 4-7=14, 12-13=16, 12-16=-12
Horz: 1-4=-29, 4-7=23

10) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=14, 4-7=21, 8-13=-12, 8-16=16
Horz: 1-4=-23, 4-7=29

| Job | Truss | Truss Type | Qty | Ply | DIVERSIFIED/LANE AVE. |
|---|---|---|---|---|---|
| B146769 | T01GE | GABLE | 2 | 1 | Job Reference (optional) |

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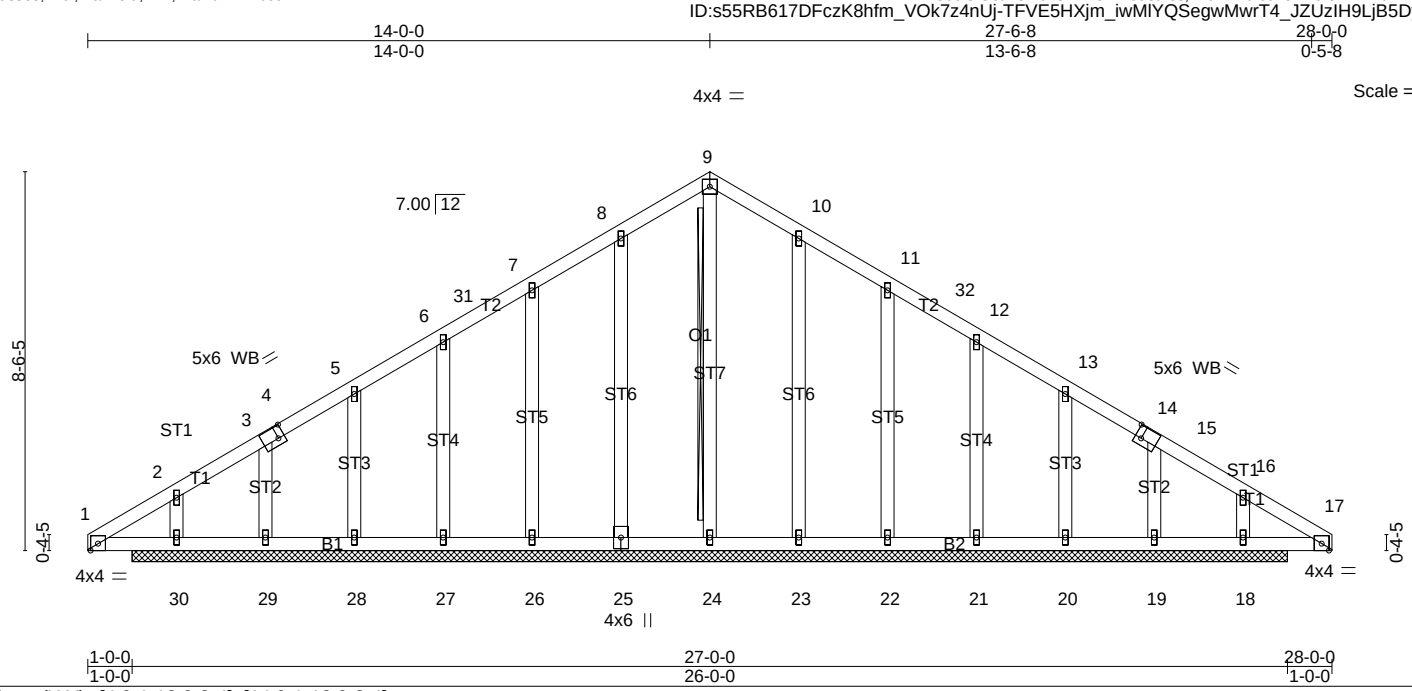


Plate Offsets (X,Y): [4:0-1-12,0-3-4], [14:0-1-12,0-3-4]

| **LOADING** (psf) | | **SPACING** | 2-0-0 | **CSI** | | **DEFL** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 46.2 | Plates Increase | 1.15 | TC | 0.19 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| (Ground Snow=60.0) | | Lumber Increase | 1.15 | BC | 0.17 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.31 | Horz(TL) | 0.01 | 18 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2009/TPI2007 | (Matrix) | | | | | | | Weight: 132 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER**

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x4 SPF No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 9-24
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 24=385/26-0-0 (min. 0-5-13), 25=283/26-0-0 (min. 0-5-13), 26=260/26-0-0 (min. 0-5-13), 27=262/26-0-0 (min. 0-5-13), 28=278/26-0-0 (min. 0-5-13), 29=213/26-0-0 (min. 0-5-13), 30=364/26-0-0 (min. 0-5-13), 23=283/26-0-0 (min. 0-5-13), 22=260/26-0-0 (min. 0-5-13), 21=262/26-0-0 (min. 0-5-13), 20=278/26-0-0 (min. 0-5-13), 19=213/26-0-0 (min. 0-5-13), 18=364/26-0-0 (min. 0-5-13)
Max Horz 30=-318(LC 5)
Max Uplift 25=-91(LC 7), 26=-101(LC 7), 27=-100(LC 7), 28=-80(LC 7), 29=-189(LC 6), 30=-113(LC 8), 23=-90(LC 8), 22=-101(LC 8), 21=-100(LC 8), 20=-82(LC 8), 19=-168(LC 5), 18=-101(LC 7)
Max Grav 24=385(LC 1), 25=394(LC 2), 26=357(LC 2), 27=277(LC 2), 28=282(LC 2), 29=213(LC 1), 30=407(LC 2), 23=394(LC 3), 22=357(LC 3), 21=277(LC 3), 20=282(LC 3), 19=213(LC 1), 18=407(LC 3)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-171/220, 2-3=-166/201, 3-4=-89/160, 4-5=-88/207, 5-6=-50/204, 6-31=-2/214, 7-31=0/222, 7-8=0/273, 8-9=0/316, 9-10=0/307, 10-11=0/263, 11-32=0/212, 12-32=0/205, 12-13=-25/204, 13-14=-64/207, 14-15=-65/137, 15-16=-138/195, 16-17=-149/220
BOT CHORD 1-30=-159/180, 29-30=-138/159, 28-29=-138/159, 27-28=-138/159, 26-27=-138/159, 25-26=-138/159, 24-25=-138/159, 23-24=-138/159, 22-23=-138/159, 21-22=-138/159, 20-21=-138/159, 19-20=-138/159, 18-19=-138/159, 17-18=-138/159
WEBS 9-24=-345/0, 8-25=-354/115, 7-26=-316/125, 6-27=-241/122, 5-28=-230/114, 3-29=-202/151, 2-30=-289/105, 10-23=-354/114, 11-22=-316/126, 12-21=-241/121, 13-20=-230/115, 15-19=-202/147, 16-18=-289/100

**NOTES**

1) Wind: ASCE 7-05; 100mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) 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.
3) TCLL: ASCE 7-05; Pg=60.0 psf (ground snow); Ps=46.2 psf (roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
4) Roof design snow load has been reduced to account for slope.
5) Unbalanced snow loads have been considered for this design.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 25, 101 lb uplift at joint 26, 100 lb uplift at joint 27, 80 lb uplift at joint 28, 189 lb uplift at joint 29, 113 lb uplift at joint 30, 90 lb uplift at joint 23, 101 lb uplift at joint 22, 100 lb uplift at joint 21, 82 lb uplift at joint 20, 168 lb uplift at joint 19 and 101 lb uplift at joint 18.
10) Non Standard bearing condition. Review required.

Continued on page 2

**NOTES**

11) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
13) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

**LOAD CASE(S)**

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-9=-112, 9-17=-112, 1-17=-20
2) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-31=-112, 9-31=-162, 9-17=-48, 1-17=-20
3) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-9=-48, 9-32=-162, 17-32=-112, 1-17=-20
4) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
      Vert: 1-9=-20, 9-17=-20, 1-17=-40
5) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: 1-9=-13, 9-17=26, 1-17=-12
      Horz: 1-9=4, 9-17=34
6) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: 1-9=26, 9-17=-13, 1-17=-12
      Horz: 1-9=-34, 9-17=-4
7) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: 1-9=43, 9-17=27, 1-17=-12
      Horz: 1-9=-51, 9-17=36
8) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: 1-9=27, 9-17=43, 1-17=-12
      Horz: 1-9=-36, 9-17=51
9) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: 1-9=21, 9-17=14, 1-17=-12
      Horz: 1-9=-29, 9-17=23
10) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
       Vert: 1-9=14, 9-17=21, 1-17=-12
       Horz: 1-9=-23, 9-17=29