

TOP CHORD 2x4 SPF No.2 *Except*

T2: 2x4 SPF 1650F 1.5E

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

BRACING-

TOP CHORD BOT CHORD WEBS Structural wood sheathing directly applied or 3-4-9 oc purlins.

Rigid ceiling directly applied or 9-2-5 oc bracing.

1 Row at midpt 4-11, 4-9

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

REACTIONS. (lb/size) 12=1798/0-5-8 (min. 0-2-13), 8=1798/0-5-8 (min. 0-2-13)

Max Horz 12=-486(LC 5)

Max Uplift12=-397(LC 7), 8=-397(LC 8)

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

TOP CHORD 2-3=-1810/440, 3-13=-1897/711, 4-13=-1660/738, 4-14=-1660/738, 5-14=-1897/711,

5-6=-1810/440

BOT CHORD 11-12=-391/1338, 10-11=-114/923, 9-10=-114/923, 8-9=-223/1338

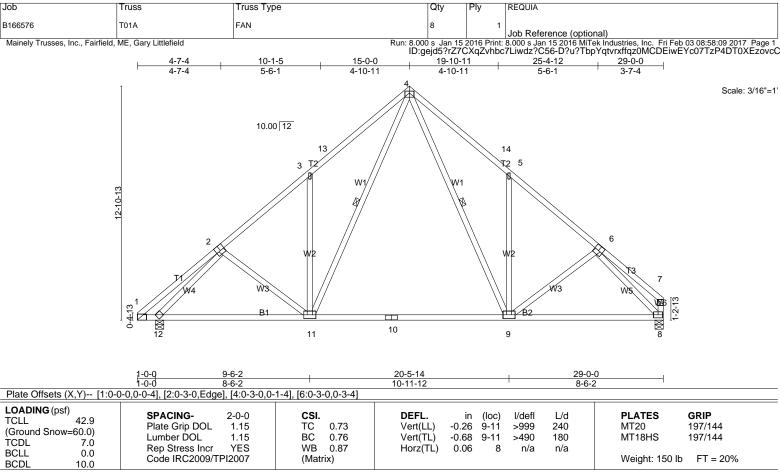
WEBS 3-11=-729/447, 5-9=-729/446, 4-11=-496/1050, 4-9=-496/1050, 2-12=-1908/468,

6-8=-1909/468

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=42.9 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) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) 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.
- 8) 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.
- 9) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.





TOP CHORD 2x4 SPF No.2 *Except*

T2: 2x4 SPF 1650F 1.5E

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

BRACING-

WFBS

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 3-6-12 oc purlins, except

end verticals.

Rigid ceiling directly applied or 9-0-9 oc bracing.

1 Row at midpt 4-11, 4-9

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

REACTIONS. (lb/size) 12=1795/0-5-8 (min. 0-2-13), 8=1663/0-5-8 (min. 0-2-10)

Max Horz 12=507(LC 6)

 $Max\ Uplift12 = -396(LC\ 7),\ 8 = -332(LC\ 8)$

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

TOP CHORD 2-3=-1806/440, 3-13=-1856/710, 4-13=-1656/737, 4-14=-1655/738, 5-14=-1894/712,

5-6=-1800/435, 6-7=-261/105, 7-8=-259/117

BOT CHORD 11-12=-405/1335, 10-11=-135/920, 9-10=-135/920, 8-9=-225/1305

WEBS 3-11=-708/447, 5-9=-738/453, 4-11=-496/1029, 4-9=-496/1047, 2-12=-1902/467,

6-8=-1800/366

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=42.9 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) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) 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.
- 8) 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.
- 9) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.



Job Truss Truss Type Qtv REQUIA B166576 T01AGE GABLE Job Reference (optional) Mainely Trusses, Inc., Fairfield, ME, Gary Littlefield Run: 8.000 s Jan 15 2016 Print: 8.000 s Jan 15 2016 MiTek Industries, Inc. Fri Feb 03 08:58:10 2017 Page 1 ID:gejd5?rZ7CXqZvhbc7Liwdz?C56-hBSOhxqAbB1iZpE1XktRIRECRx2os_oYltCZ4hzovcB 29-0-0 15-0-0 15-0-0 14-0-0 Scale = 1:56.7 10 8 10.00 12 11 34 12 13 14 15 3 16 17 1-2-13 Inl B2 30 29 28 23 22 21 20 ²⁶ 29²5-0 19 1-0-0 1-0-0 28-0-0 Plate Offsets (X,Y)-- [1:0-0-0,0-0-4], [18:Edge,0-1-8] LOADING (psf) GRIP SPACING-CSI. DEFL. in I/defI L/d **PLATES** (loc) Plate Grip DOL 1.15 TC 0.32 Vert(LL) n/a n/a 999 MT20 197/144 (Ground Snow=60.0) Lumber DOL 1.15 ВС 0.35 Vert(TL) n/a n/a 999 TCDL 7.0 Rep Stress Incr YES WB 0.58 0.02 18 Horz(TL) n/a n/a

LUMBER-

BCLL

BCDI

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

0.0

10.0

BRACING-

WFBS

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 7-9-4 oc purlins, except end verticals.

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

T-Brace:

2x4 SPF No.2 - 9-25, 8-27, 7-28, 10-24, 11-23 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.

Weight: 181 lb

FT = 20%

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. All bearings 28-0-0.

Max Horz 32=507(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 27, 20 except 18=-506(LC 6),

28=-150(LC 7), 29=-135(LC 7), 30=-117(LC 7), 31=-234(LC 6), 32=-158(LC 8),

(Matrix)

24=-106(LC 8), 23=-148(LC 8), 22=-128(LC 8), 21=-144(LC 8), 19=-389(LC 5)

Max Grav All reactions 250 lb or less at joint(s) 29, 31, 22, 21, 20 except

18=511(LC 5), 25=683(LC 7), 27=397(LC 2), 28=312(LC 2), 30=273(LC 1),

32=480(LC 1), 24=397(LC 3), 23=330(LC 3), 19=367(LC 1)

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

Code IRC2009/TPI2007

TOP CHORD 1-2=-117/283, 5-6=0/268, 6-33=0/368, 7-33=0/378, 7-8=0/500, 8-9=0/589

9-10=-40/603, 10-11=-52/551, 11-34=-118/463, 12-34=-128/453, 12-13=-201/415,

13-14=-280/429, 14-15=-325/419, 15-16=-335/410, 16-17=-499/515, 17-18=-363/381 **BOT CHORD** 31-32=-365/380, 30-31=-365/380, 29-30=-365/380, 28-29=-365/380, 27-28=-365/380,

26-27=-365/380, 25-26=-365/380, 24-25=-365/380, 23-24=-365/380, 22-23=-365/380,

21-22=-365/380, 20-21=-365/380, 19-20=-365/380, 18-19=-365/380

9-25=-659/0, 8-27=-357/122, 7-28=-271/175, 2-32=-329/171, 10-24=-357/131,

11-23=-290/171, 16-19=-260/242

NOTES-

WEBS

- 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=42.9 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.
- 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 100 lb uplift at joint(s) 27, 20 except (jt=lb) 18=506, 28=150, 29=135, 30=117, 31=234, 32=158, 24=106, 23=148, 22=128, 21=144, 19=389.

(10)h (Noure Starm changeb Learing condition. Review required.



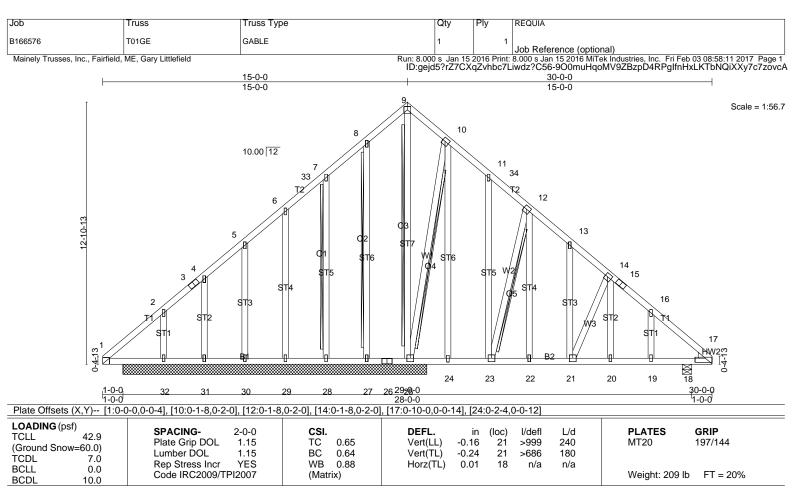
Job	Truss	Truss Type	Qty	Ply	REQUIA
B166576	T01AGE	GABLE	1	1	Job Reference (optional)

Mainely Trusses, Inc., Fairfield, ME, Gary Littlefield

Run: 8.000 s Jan 15 2016 Print: 8.000 s Jan 15 2016 MiTek Industries, Inc. Fri Feb 03 08:58:10 2017 Page 2 ID:gejd5?rZ7CXqZvhbc7Liwdz?C56-hBSOhxqAbB1iZpE1XktRIRECRx2os_oYltCZ4hzovcB

- 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.





TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 *Except* B2: 2x4 SPF 2100F 1.8E

WEBS 2x4 SPF No.2 OTHERS 2x4 SPF No.2

WEDGE

Right: 2x4 SPF No.2

REACTIONS. All bearings 14-11-8 except (jt=length) 18=0-5-8.

(lb) - Max Horz 32=-486(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) 27, 32 except 25=-221(LC 5),

28=-150(LC 7), 29=-136(LC 7), 30=-112(LC 7), 31=-219(LC 7), 18=-367(LC 7)

Max Grav All reactions 250 lb or less at joint(s) 29, 31 except 25=1304(LC 3),

27=417(LC 2), 28=325(LC 2), 30=256(LC 2), 32=403(LC 2), 18=921(LC 3)

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

TOP CHORD 1-2=-113/341, 3-4=-5/292, 4-5=0/304, 5-6=0/301, 6-33=0/356, 7-33=0/365, 7-8=0/487,

8-9=0/578, 9-10=-56/616, 10-11=-68/557, 11-34=-225/568, 12-34=-356/565,

12-13=-444/522, 13-14=-539/471, 14-15=-582/436, 15-16=-688/428, 16-17=-709/332

31-32-376/417, 30-31=-376/417, 29-30=-376/417, 28-29=-376/417, 27-28=-376/417, 26-27=-376/417, 25-26=-376/417, 24-25=-320/348, 23-24=-320/348, 22-23=-244/360,

21-22=-244/360, 20-21=-193/447, 19-20=-193/447, 18-19=-193/447, 17-18=-193/447

9-25=-683/0, 8-27=-371/123, 7-28=-286/175, 2-32=-297/161, 10-24=-307/632,

 $11-23 = -109/276,\ 12-22 = -304/588,\ 16-19 = -270/181,\ 12-23 = -984/575,\ 10-25 = -1244/583,$

14-21=-266/257

BRACING-

TOP CHORD BOT CHORD WEBS Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 6-0-0 oc bracing

T-Brace: 2x4 SPF No.2 - 9-25, 8-27, 7-28, 12-23, 10-25 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.

NOTES-

WFBS

BOT CHORD

- 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=42.9 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) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 32 except (jt=lb) 25=221, 28=150, 29=136, 30=112, 31=219, 18=367.
- 9) 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.
- 10) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

Continuation Additional permanent and stability bracing for truss system (not part of this component design) is always required.

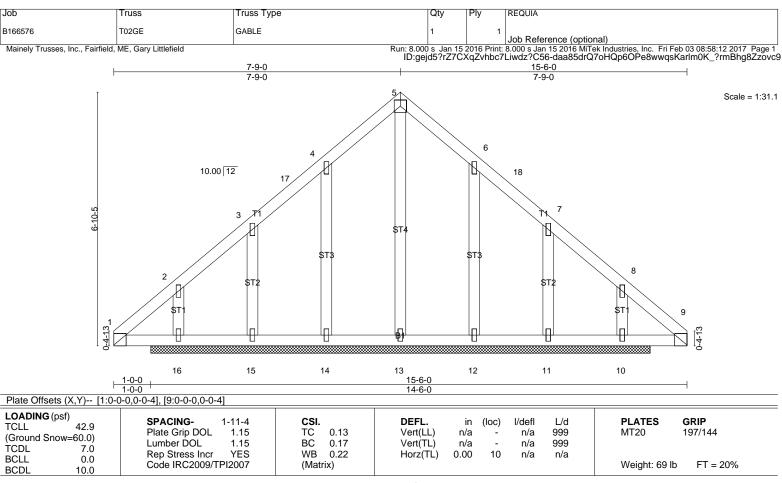


Job	Truss	Truss Type	Qty	Ply	REQUIA
B166576	T01GE	GABLE	1	1	.loh Reference (ontional)

Mainely Trusses, Inc., Fairfield, ME, Gary Littlefield

Run: 8.000 s Jan 15 2016 Print: 8.000 s Jan 15 2016 MiTek Industries, Inc. Fri Feb 03 08:58:11 2017 Page 2 ID:gejd5?rZ7CXqZvhbc7Liwdz?C56-9O0muHqoMV9ZBzpD4RPglfnHxLKTbNQiXXy7c7zovcA





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

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 10-0-0 oc purlins.

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

REACTIONS. All bearings 13-6-0.

(lb) - Max Horz 16=-245(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) except 14=-119(LC 7), 15=-213(LC 6), 16=-176(LC 5),

12=-119(LC 8), 11=-206(LC 5), 10=-166(LC 6)

Max Grav All reactions 250 lb or less at joint(s) 15, 11 except 13=329(LC 1), 14=331(LC 2), 16=309(LC 2), 12=331(LC 3), 10=309(LC 3)

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

5-13=-292/0, 4-14=-285/148, 6-12=-285/148 WEBS

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
- 1) Wild: ASCE 7-03, 100HpH, 12DE-4.2ps, BODE-8.0ps, 11=2st, Cat. II, EXP C, enclosed, MVPRS (10W-RS) gable end 20He, Callillevel 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=42.9 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) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint 14, 213 lb uplift at joint 15, 176 lb uplift at joint 16, 119 lb uplift at joint 12, 206 lb uplift at joint 11 and 166 lb uplift at joint 10.
- Non Standard bearing condition. Review required.
- 10) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced
- 11) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

