Job	Truss	Truss Type	Qty	Ply	REQUIA
B166576	T01	FAN	7	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
ID:gejd5?rZ7CXqZvhbc7Liwdz?C56-lpKdGFow3an_KV4ePJrzg09

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 02/15/17

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	42.9	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.27	9-11	>999	240	MT20	197/144
(Ground Snow=60.0)		Lumber DOL	1.15	BC	0.75	Vert(TL)	-0.70	9-11	>475	180	MT18HS	197/144
TCDL	7.0	Rep Stress Incr	YES	WB	0.88	Horz(TL)	0.06	8	n/a	n/a		
BCLL	0.0	Code IRC2009/TPI2007		(Matrix)							Weight: 152 lb	FT = 20%
BCDL	10.0											

LUMBER-
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 Structural wood sheathing directly applied or 3-4-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-2-5 oc bracing.
WEBS 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 Uplift 12=-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.

LOAD CASE(S) Standard

MAINELY TRUSSES
Engineered Truss Systems

Job	Truss	Truss Type	Qty	Ply	REQUIA
B166576	T01A	FAN	8	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
ID:gejd5?rZ7CXqZvhbc7Liwdz?C56-D?u?TbpYqtvrxffqz0MCDEiwE

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	42.9	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.26	9-11	>999	240	MT20	197/144
(Ground Snow=60.0)		Lumber DOL	1.15	BC	0.76	Vert(TL)	-0.68	9-11	>490	180	MT18HS	197/144
TCDL	7.0	Rep Stress Incr	YES	WB	0.87	Horz(TL)	0.06	8	n/a	n/a		
BCLL	0.0	Code IRC2009/TPI2007		(Matrix)							Weight: 150 lb	FT = 20%
BCDL	10.0											

LUMBER-
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 Structural wood sheathing directly applied or 3-6-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-0-9 oc bracing.
WEBS 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.

LOAD CASE(S) Standard

MAINELY TRUSSES
Engineered Truss Systems

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
ID:gejd5?rZ7CXqZvhbc7Liwdz?C56-hBSOhxqAbB1iZpE1XktRlRE0

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 02/15/17

Plate Offsets (X,Y)-- [1:0-0-0,0-0-4], [18:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	42.9	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	BC	0.35	Vert(TL)	n/a	-	n/a	999		
TCDL	7.0	Rep Stress Incr	YES	WB	0.58	Horz(TL)	0.02	18	n/a	n/a		
BCLL	0.0	Code IRC2009/TPI2007		(Matrix)							Weight: 181 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 7-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 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.
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.
(lb) - 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), 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.
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
WEBS 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-
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) 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) Non-standard bearing condition. Review required.

Continue on page 2

MAINELY TRUSSES
Engineered Truss Systems

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 02/15/17

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) Standard

MAINELY TRUSSES
Engineered Truss Systems

Job	Truss	Truss Type	Qty	Ply	REQUIA
B166576	T01GE	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
ID:gejd5?rZ7CXqZvhbc7Liwdz?C56-9O0muHqoMV9ZBzpD4RPgIfnH:

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 02/15/17

Plate Offsets (X,Y)-- [1:0-0-0,0-0-4], [10:0-1-8,0-2-0], [12:0-1-8,0-2-0], [14:0-1-8,0-2-0], [17:0-10-0,0-0-14], [24:0-2-4,0-0-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	42.9	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.16	21	>999	240	MT20	197/144
(Ground Snow=60.0)		Lumber DOL	1.15	BC	0.64	Vert(TL)	-0.24	21	>686	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.88	Horz(TL)	0.01	18	n/a	n/a		
BCLL	0.0	Code IRC2009/TPI2007		(Matrix)							Weight: 209 lb	FT = 20%
BCDL	10.0											

LUMBER-
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

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

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
BOT CHORD 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
WEBS 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

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

Continued on page 2

MAINELY TRUSSES
Engineered Truss Systems

Job	Truss	Truss Type	Qty	Ply	REQUIA
B166576	T01GE	GABLE	1	1	Job Reference (optional)

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

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LOAD CASE(S) Standard

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 02/15/17

Job	Truss	Truss Type	Qty	Ply	REQUIA
B166576	T02GE	GABLE	1	1	Job Reference (optional)

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

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ID:gejd5?rZ7CXqZvhbc7Liwdz?C56-daa85drQ7oHQp6OPe8wwqsKa

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Inspections Division
Approved with Conditions
Date: 02/15/17

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

LOADING (psf)		SPACING- 1-11-4		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	42.9	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Ground Snow=60.0)		Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
TCDL	7.0	Rep Stress Incr	YES	WB	0.22	Horz(TL)	0.00	10	n/a	n/a		
BCLL	0.0	Code IRC2009/TPI2007		(Matrix)							Weight: 69 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.

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

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=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.
9) 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 standard ANSI/TPI 1.
11) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard

MAINELY TRUSSES
Engineered Truss Systems