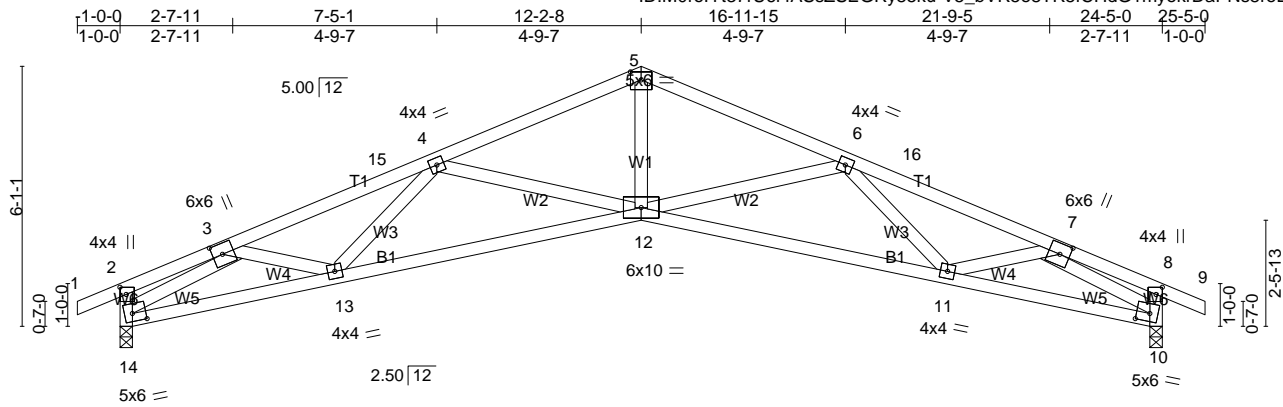


Job B160331	Truss S01	Truss Type SCISSORS	Qty 17	Ply 1	AULD-BROKISH
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Mainely Trusses, Inc., Fairfield, ME, Kenneth Lee

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ID: M0rolYt37rU6i4ASsZSEGRy85ku-V5_bVR5e8TR5fCHdG1myekrDaPNs8reDDs7s_UzQqNY



Scale = 1:54.0

Plate Offsets (X,Y)--	[2:0-2-0,0-1-12], [3:0-3-0,0-2-12], [5:0-3-0,0-2-4], [7:0-3-0,0-2-12], [8:0-2-0,0-1-12], [10:0-3-12,0-2-4], [14:0-3-12,0-2-4]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 46.2 (Ground Snow=60.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.66 BC 0.99 WB 0.55 (Matrix)	Vert(LL) -0.30 Vert(TL) -0.55 Horz(TL) 0.34	12 12-13 10	>958 >526 n/a	240 180 n/a	MT20	197/144
TCDL 7.0	Rep Stress Incr YES						Weight: 97 lb	FT = 20%
BCLL 0.0	Code IRC2009/TPI2007							
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 or 2-5-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

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

REACTIONS. (lb/size) 14=1647/0-3-8 (min. 0-1-8), 10=1647/0-3-8 (min. 0-1-8)
Max Horz 14=-99(LC 8)
Max Uplift 14=-390(LC 7), 10=-390(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-15=-3537/687, 4-15=-3352/696, 4-5=-3156/576, 5-6=-3156/589, 6-16=-3352/639,
7-16=-3537/630, 2-14=-305/128, 8-10=-305/126
BOT CHORD 13-14=-612/2566, 12-13=-696/3493, 11-12=-530/3493, 10-11=-476/2566
WEBS 5-12=-294/1890, 3-13=0/698, 4-13=-347/139, 4-12=-884/327, 6-12=-884/338,
6-11=-347/155, 7-11=-14/698, 3-14=-3003/664, 7-10=-3003/624

- 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 greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 46.2 psf on overhangs non-concurrent with other live loads.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) Bearing at joint(s) 14, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14 and 10. This connection is for uplift only and does not consider lateral forces.
 - 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.

LOAD CASE(S)

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-106, 2-5=-106, 5-8=-106, 8-9=-106, 12-14=-20, 10-12=-20
- 2) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-106, 2-15=-106, 5-15=-147, 5-8=-42, 8-9=-42, 12-14=-20, 10-12=-20

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	AULD-BROKISH
B160331	S01	SCISSORS	17	1	Job Reference (optional)

Mainely Trusses, Inc., Fairfield, ME, Kenneth Lee

8.000 s Jan 15 2016 MiTek Industries, Inc. Thu Apr 14 11:32:43 2016 Page 2
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LOAD CASE(S)

- 3) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-42, 2-5=-42, 5-16=-147, 8-16=-106, 8-9=-106, 12-14=-20, 10-12=-20
- 4) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-14, 2-5=-14, 5-8=-14, 8-9=-14, 12-14=-40, 10-12=-40
- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=49, 2-5=29, 5-8=26, 8-9=18, 12-14=-12, 10-12=-12
Horz: 1-2=-58, 2-5=-37, 5-8=34, 8-9=27, 2-14=21, 8-10=27
- 6) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=18, 2-5=26, 5-8=29, 8-9=49, 12-14=-12, 10-12=-12
Horz: 1-2=-27, 2-5=-34, 5-8=37, 8-9=58, 2-14=-27, 8-10=21
- 7) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=64, 2-5=43, 5-8=27, 8-9=20, 12-14=-12, 10-12=-12
Horz: 1-2=-72, 2-5=-51, 5-8=36, 8-9=28, 2-14=-26, 8-10=26
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=20, 2-5=27, 5-8=43, 8-9=64, 12-14=-12, 10-12=-12
Horz: 1-2=-28, 2-5=-36, 5-8=51, 8-9=72, 2-14=-26, 8-10=26
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=41, 2-5=21, 5-8=14, 8-9=7, 12-14=-12, 10-12=-12
Horz: 1-2=-50, 2-5=-29, 5-8=23, 8-9=15, 2-14=-26, 8-10=26
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-5=14, 5-8=21, 8-9=41, 12-14=-12, 10-12=-12
Horz: 1-2=-15, 2-5=-23, 5-8=29, 8-9=50, 2-14=-26, 8-10=26
- 11) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-106, 2-5=-14, 5-8=-14, 8-9=-106, 12-14=-20, 10-12=-20



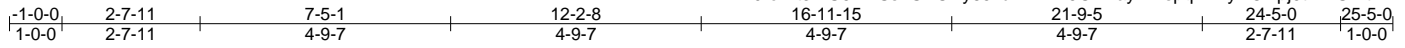
Job	Truss	Truss Type	Qty	Ply	AULD-BROKISH
B160331	S01FSGE	SCISSORS	2	1	

Mainely Trusses, Inc., Fairfield, ME, Kenneth Lee

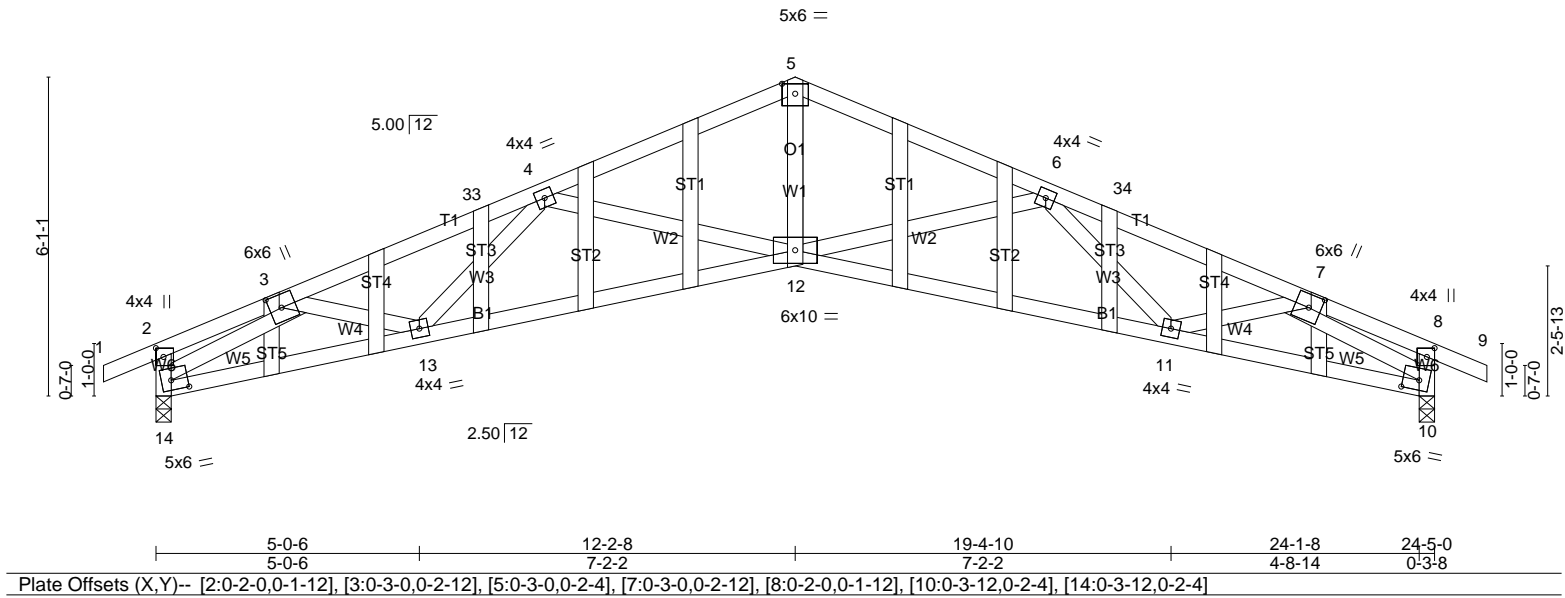
8.000 s Jan 15 2016 MiTek Industries, Inc. Thu Apr 14 11:32:44 2016 Page 1

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Job Reference (optional)



Scale = 1:44.0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 46.2	2-0-0	TC 0.66	in (loc) l/defl L/d	MT20	197/144
(Ground Snow=60.0)	Plate Grip DOL 1.15	BC 0.99	Vert(LL) -0.30 12 >976 240		
TCDL 7.0	Lumber DOL 1.15	WB 0.55	Vert(TL) -0.54 11-12 >532 180		
BCLL 0.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.33 10 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007			Weight: 129 lb	FT = 20%

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 2-5-7 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

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

REACTIONS. (lb/size) 14=1647/0-3-8 (min. 0-1-8), 10=1647/0-3-8 (min. 0-1-8)
 Max Horz 14=99(LC 7)
 Max Uplift 14=390(LC 7), 10=390(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-33=-3537/687, 4-33=-3352/696, 4-5=-3156/576, 5-6=-3154/589, 6-34=-3352/639,
 7-34=-3537/630, 2-14=-305/128, 8-10=-305/126
 BOT CHORD 13-14=-612/2565, 12-13=-696/3494, 11-12=-530/3494, 10-11=-476/2565
 WEBS 5-12=-294/1890, 3-13=0/699, 4-13=-348/139, 4-12=-885/327, 6-12=-886/339,
 6-11=-347/155, 7-11=-14/699, 3-14=-3002/664, 7-10=-3002/624

- 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) TCDL: 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.
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 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) Bearing at joint(s) 14, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14 and 10. This connection is for uplift only and does not consider lateral forces.
 - 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.

LOAD CASE(S)

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-106, 2-5=-106, 5-8=-106, 8-9=-106, 12-14=-20, 10-12=-20
- 2) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-106, 2-33=-106, 5-33=-147, 5-8=-42, 8-9=-42, 12-14=-20, 10-12=-20

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	AULD-BROKISH
B160331	S01FSGE	SCISSORS	2	1	Job Reference (optional)

Mainely Trusses, Inc., Fairfield, ME, Kenneth Lee

8.000 s Jan 15 2016 MiTek Industries, Inc. Thu Apr 14 11:32:44 2016 Page 2
 ID:M0roIYt37rU6i4ASsZSEGRy85ku-zlYzin6GvmayHMspqllBBYNOHpj6tlvMSWtPWwzQqNX

LOAD CASE(S)

- 3) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-42, 2-5=-42, 5-34=-147, 8-34=-106, 8-9=-106, 12-14=-20, 10-12=-20
- 4) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-14, 2-5=-14, 5-8=-14, 8-9=-14, 12-14=-40, 10-12=-40
- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=49, 2-5=29, 5-8=26, 8-9=18, 12-14=-12, 10-12=-12
 Horz: 1-2=-58, 2-5=-37, 5-8=34, 8-9=27, 2-14=21, 8-10=27
- 6) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=18, 2-5=26, 5-8=29, 8-9=49, 12-14=-12, 10-12=-12
 Horz: 1-2=-27, 2-5=-34, 5-8=37, 8-9=58, 2-14=-27, 8-10=-21
- 7) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=64, 2-5=43, 5-8=27, 8-9=20, 12-14=-12, 10-12=-12
 Horz: 1-2=-72, 2-5=-51, 5-8=36, 8-9=28, 2-14=-26, 8-10=26
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=20, 2-5=27, 5-8=43, 8-9=64, 12-14=-12, 10-12=-12
 Horz: 1-2=-28, 2-5=-36, 5-8=51, 8-9=72, 2-14=-26, 8-10=26
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=41, 2-5=21, 5-8=14, 8-9=7, 12-14=-12, 10-12=-12
 Horz: 1-2=-50, 2-5=-29, 5-8=23, 8-9=15, 2-14=-26, 8-10=26
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=7, 2-5=14, 5-8=21, 8-9=41, 12-14=-12, 10-12=-12
 Horz: 1-2=-15, 2-5=-23, 5-8=29, 8-9=50, 2-14=-26, 8-10=26
- 11) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-106, 2-5=-14, 5-8=-14, 8-9=-106, 12-14=-20, 10-12=-20

