

Scale = 1:61.1

Plate Offsets (X,Y): [6:0-1-8,0-2-0], [7:0-5-0,0-3-4], [8:0-1-8,0-2-0]

LOADING(psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 35.6 (Ground Snow=60.0)	2-0-0 Plates Increase 1.15 Lumber Increase 1.15	TC 0.86 BC 0.78 WB 0.50 (Matrix-M)	in (loc) l/defl L/d Vert(LL) -0.19 7-8 >999 240 Vert(TL) -0.48 7-8 >495 180 Horz(TL) 0.02 6 n/a n/a	MT20	197/144
TCDL 10.0	Rep Stress Incr YES			Weight: 108 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 *Except* W3: 2x4 SPF 2100F 1.8E	BRACING TOP CHORD Structural wood sheathing directly applied, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 1 Row at midpt 4-7, 2-7
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MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 8=1095/0-5-8 (min. 0-1-11), 6=1095/0-5-8 (min. 0-1-11)
 Max Horz 8=-379(LC 5)
 Max Uplift 8=-131(LC 8), 6=-131(LC 7)

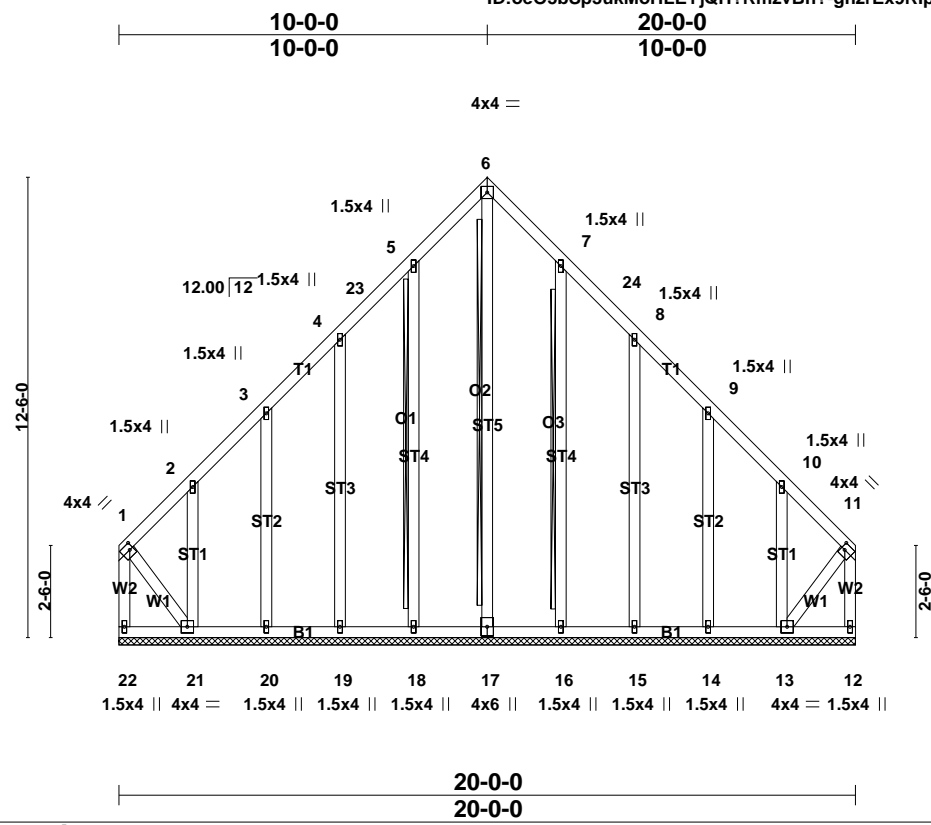
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-129/135, 2-9=-881/225, 3-9=-672/244, 3-10=-672/244, 4-10=-881/225, 4-5=-129/135, 1-8=-143/75, 5-6=-143/75
 BOT CHORD 7-8=-255/575, 6-7=-40/575
 WEBS 3-7=-152/436, 4-7=-195/266, 2-7=-195/266, 2-8=-1019/146, 4-6=-1019/146

- NOTES (9)**
- 1) Wind: ASCE 7-05; 100mph (3-second gust); TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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=35.6 psf (roof snow); Category II; Exp B; 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 H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 6. 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.
 - 9) THIS TRUSS DESIGNED WITH A 2' HEEL HEIGHT.

LOAD CASE(S) Standard

Job B133043	Truss T01GE	Truss Type Common Truss	Qty 2	Ply 1	760 OCEAN AVE.
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Mainely Trusses, Inc., Fairfield, ME, Justin Harkins 7.350 s Sep 27 2012 MITek Industries, Inc. Wed Feb 13 12:59:43 2013 Page 1



Scale = 1:62.6

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

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 35.6 (Ground Snow=60.0)	1-11-4 Plates Increase 1.15 Lumber Increase 1.15	TC 0.09 BC 0.06 WB 0.22 (Matrix)	in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(TL) n/a - n/a 999 Horz(TL) 0.01 12 n/a n/a	MT20	197/144
TCDL 10.0	Rep Stress Incr YES				
BCLL 0.0	Code IRC2009/TPI2007				
BCDL 10.0					
				Weight: 143 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	WEBS T-Brace: 2 X 4 SPF No.2 - 6-17, 5-18, 7-16
OTHERS 2x4 SPF No.2	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.

REACTIONS (lb/size) 22=128/20-0-0 (min. 0-3-5), 12=128/20-0-0 (min. 0-3-5), 17=159/20-0-0 (min. 0-3-5), 18=223/20-0-0 (min. 0-3-5), 19=215/20-0-0 (min. 0-3-5), 20=214/20-0-0 (min. 0-3-5), 21=202/20-0-0 (min. 0-3-5), 16=223/20-0-0 (min. 0-3-5), 15=215/20-0-0 (min. 0-3-5), 14=214/20-0-0 (min. 0-3-5), 13=202/20-0-0 (min. 0-3-5)

Max Horz 22=367(LC 5)
 Max Uplift 22=252(LC 5), 12=167(LC 6), 18=99(LC 7), 19=114(LC 7), 20=107(LC 7), 21=370(LC 7), 16=97(LC 8), 15=115(LC 8), 14=107(LC 8), 13=356(LC 8)
 Max Grav 22=462(LC 6), 12=377(LC 5), 17=279(LC 8), 18=324(LC 2), 19=227(LC 2), 20=214(LC 1), 21=217(LC 5), 16=324(LC 3), 15=227(LC 3), 14=214(LC 1), 13=202(LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-261/157, 2-3=-193/150, 3-4=-122/139, 4-23=-101/162, 5-23=-46/169, 5-6=-140/231, 6-7=-140/218, 7-24=-33/152, 8-24=-101/146, 8-9=-93/86, 9-10=-139/96, 10-11=-208/103, 1-22=447/257, 11-12=-363/173
BOT CHORD 21-22=-339/345, 20-21=-113/217, 19-20=-113/217, 18-19=-113/217, 17-18=-113/217, 16-17=-113/217, 15-16=-113/217, 14-15=-113/217, 13-14=-113/217, 12-13=-20/27
WEBS 6-17=-256/0, 5-18=-286/122, 4-19=-188/137, 3-20=-175/131, 2-21=-184/133, 7-16=-286/121, 8-15=-188/138, 9-14=-175/131, 10-13=-184/133, 1-21=-205/360, 11-13=-147/312

- NOTES (14)**
- 1) Wind: ASCE 7-05; 100mph (3-second gust); TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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=35.6 psf (roof snow); Category II; Exp B; 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 requires continuous bottom chord bearing.
 - 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 8) Gable studs spaced at 2-0-0 oc.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 252 lb uplift at joint 22, 167 lb uplift at joint 12, 99 lb uplift at joint 18, 114 lb uplift at joint 19, 107 lb uplift at joint 20, 370 lb uplift at joint 21, 97 lb uplift at joint 16, 115 lb uplift at joint 15, 107 lb uplift at joint 14 and 356 lb uplift at joint 13.
 - 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.
 - 14) THIS TRUSS DESIGNED WITH A 2' HEEL HEIGHT.



LOAD CASE(S) Standard