Job	Truss	Truss Type	Qty	Ply	Lucas Shelter-Lucas Shelter
Q-2302145-1	T1	Common	18	1	Job Reference (optional)

Peak Truss Builders LLC, New Hill, user — Run: 8.72 S Sep 21 2023 Print: 8.720 S Sep 21 2023 MiTek Industries, Inc. Thu Oct 12 11:47:37 — Page: 1

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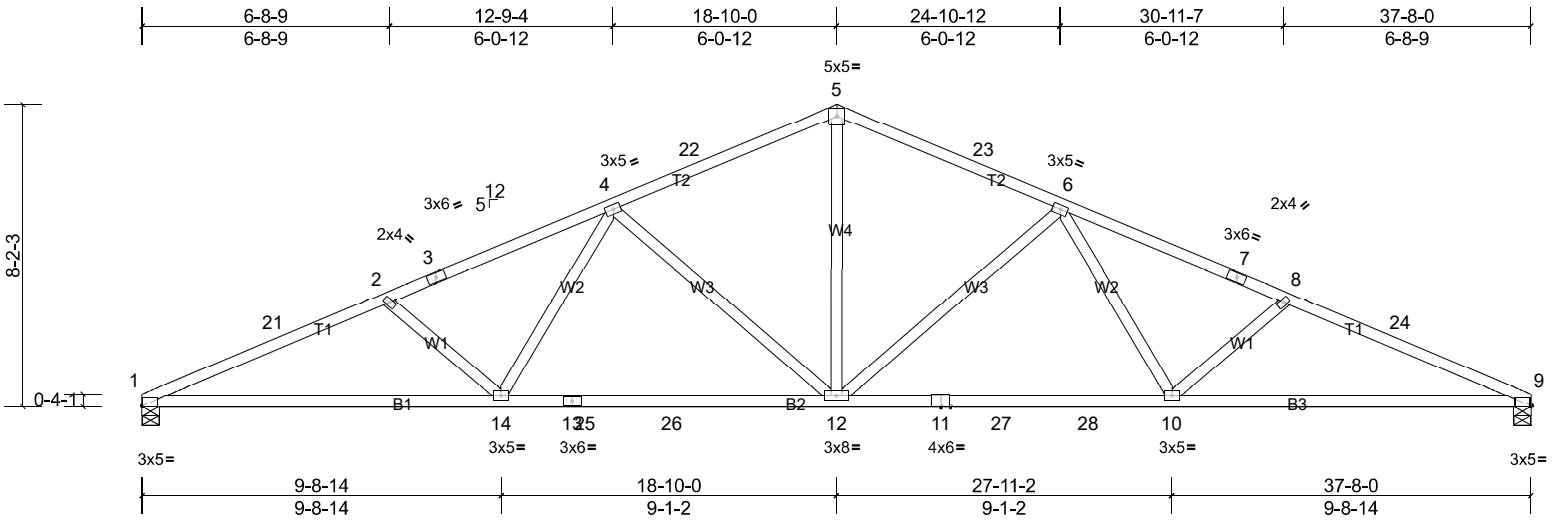

Scale = 1:62.5

Plate Offsets (X, Y): [1:0-0-2,Edge], [9:0-0-2,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.23	12-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.48	12-14	>945	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.14	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 181 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 2-9-5 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS (lb/size) 1=1507/0-5-8, (min. 0-2-6), 9=1507/0-5-8, (min. 0-2-6)
Max Horiz 1=-104 (LC 9)
Max Uplift 1=-186 (LC 11), 9=-186 (LC 11)

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

TOP CHORD 1-21=-3281/440, 2-21=-3222/454, 2-3=-2973/382, 3-4=-2900/408, 4-22=-2057/325, 5-22=-1982/351, 5-23=-1982/351, 6-23=-2057/325, 6-7=-2900/408, 7-8=-2973/382, 8-24=-3222/454, 9-24=-3281/440

BOT CHORD 1-14=-356/2992, 13-14=-226/2403, 13-25=-226/2403, 25-26=-226/2403, 12-26=-226/2403, 11-12=-226/2403, 11-27=-226/2403, 27-28=-226/2403, 10-28=-226/2403, 9-10=-356/2992

WEBS 5-12=-141/1187, 6-12=-776/188, 6-10=-4/572, 8-10=-422/171, 4-12=-776/188, 4-14=-4/572, 2-14=-422/171

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=38ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-0 to 3-9-3, Interior (1) 3-9-3 to 18-10-0, Exterior (2) 18-10-0 to 22-7-3, Interior (1) 22-7-3 to 37-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 186 lb uplift at joint 1 and 186 lb uplift at joint 9.
5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lucas Shelter-Lucas Shelter
Q-2302145-1	T1GE	Common Supported Gable	2	1	Job Reference (optional)

Peak Truss Builders LLC, New Hill, user — Run: 8.72 S Sep 21 2023 Print: 8.720 S Sep 21 2023 MiTek Industries, Inc. Thu Oct 12 11:47:37 — Page: 1

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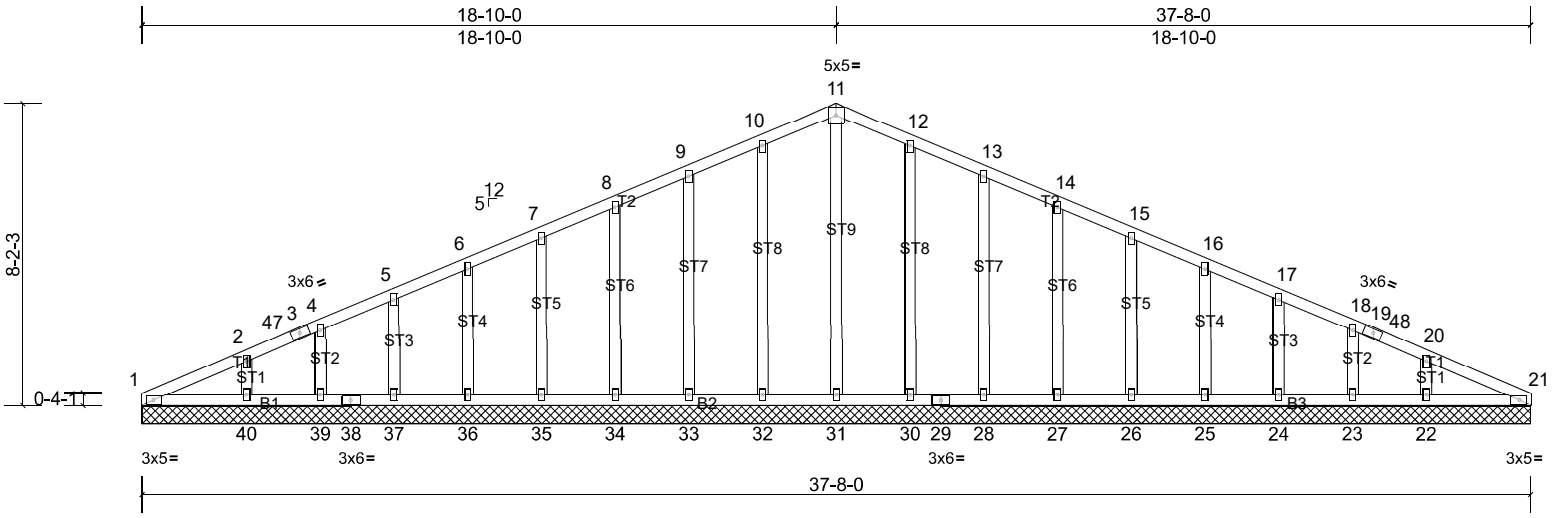

Scale = 1:62.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	21	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 221 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
OTHERS	2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS All bearings 37-8-0.

(lb) - Max Horiz 1=-104 (LC 9), 41=-104 (LC 9)

Max Uplift All uplift 100 (lb) or less at joint(s) 22, 23, 24, 25, 26, 27, 28, 30, 32, 33, 34, 35, 36, 37, 39, 40

Max Grav All reactions 250 (lb) or less at joint(s) 1, 21, 22, 23, 24, 25, 26, 27, 28, 30, 31, 32, 33, 34, 35, 36, 37, 39, 40, 41, 44

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

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=38ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) 0-0-0 to 3-9-3, Exterior (2) 3-9-3 to 18-10-0, Corner (3) 18-10-0 to 22-10-0, Exterior (2) 22-10-0 to 37-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32, 33, 34, 35, 36, 37, 39, 40, 30, 28, 27, 26, 25, 24, 23, 22.
9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 21, 44.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard