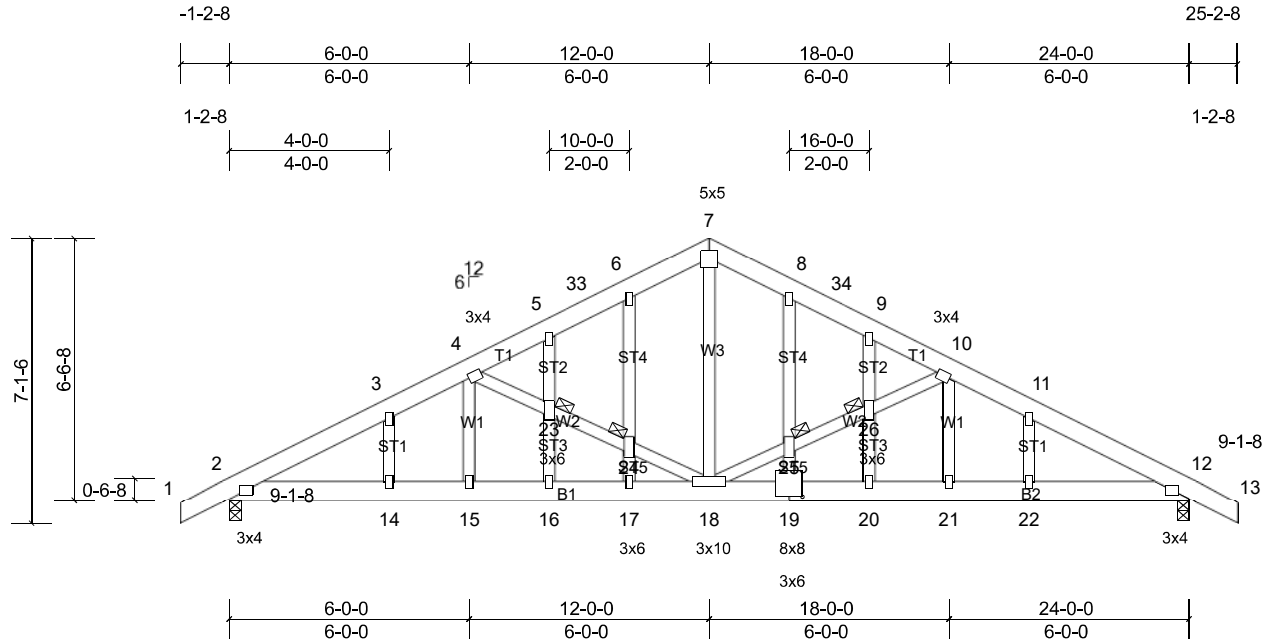


Job	Truss	Truss Type	Qty	Ply	Carport Addition
251937-A	A1-GE	Common	1	1	Job Reference (optional)



Scale = 1:57.6

Plate Offsets (X, Y): [19:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	-0.04	16-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.08	16-17	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.03	12	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.04	16-17	>999	240	Weight: 189 lb	FT = 25%

**LUMBER**

TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x4 SP No.2  
OTHERS 2x4 SP No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Structural wood sheathing directly applied.  
JOINTS 1 Brace at Jt(s): 24,  
23, 25, 26

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

**REACTIONS** (lb/size) 2=1033/0-3-8, (min. 0-1-8),  
12=1033/0-3-8, (min. 0-1-8)  
Max Horiz 2=-134 (LC 13)  
Max Uplift 2=-232 (LC 12), 12=-232 (LC 13)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250  
(lb) or less except when shown.  
TOP CHORD 2-3=-1665/383, 3-4=-1612/426,  
4-5=-1159/315, 5-33=-1122/346,  
6-33=-1099/350, 6-7=-1077/379,  
7-8=-1077/379, 8-34=-1099/350,  
9-34=-1122/346, 9-10=-1159/315,  
10-11=-1612/426, 11-12=-1665/383  
BOT CHORD 2-14=-320/1451, 14-15=-320/1451,  
15-16=-320/1451, 16-17=-320/1451,  
17-18=-320/1451, 18-19=-264/1451,  
19-20=-264/1451, 20-21=-264/1451,  
21-22=-264/1451, 12-22=-264/1451  
WEBS 4-23=-549/249, 23-24=-542/245,  
18-24=-559/254, 7-18=-197/645,  
18-25=-559/256, 25-26=-542/247,  
10-26=-549/251

**NOTES**

1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust)  
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-2-8 to 1-9-8, Interior (1) 1-9-8 to 12-0-0, Exterior(2R) 12-0-0 to 15-0-0, Interior (1) 15-0-0 to 25-2-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 232 lb uplift at joint 2 and 232 lb uplift at joint 12.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Carport Addition
251937-A	A2	Common	12	1	Job Reference (optional)

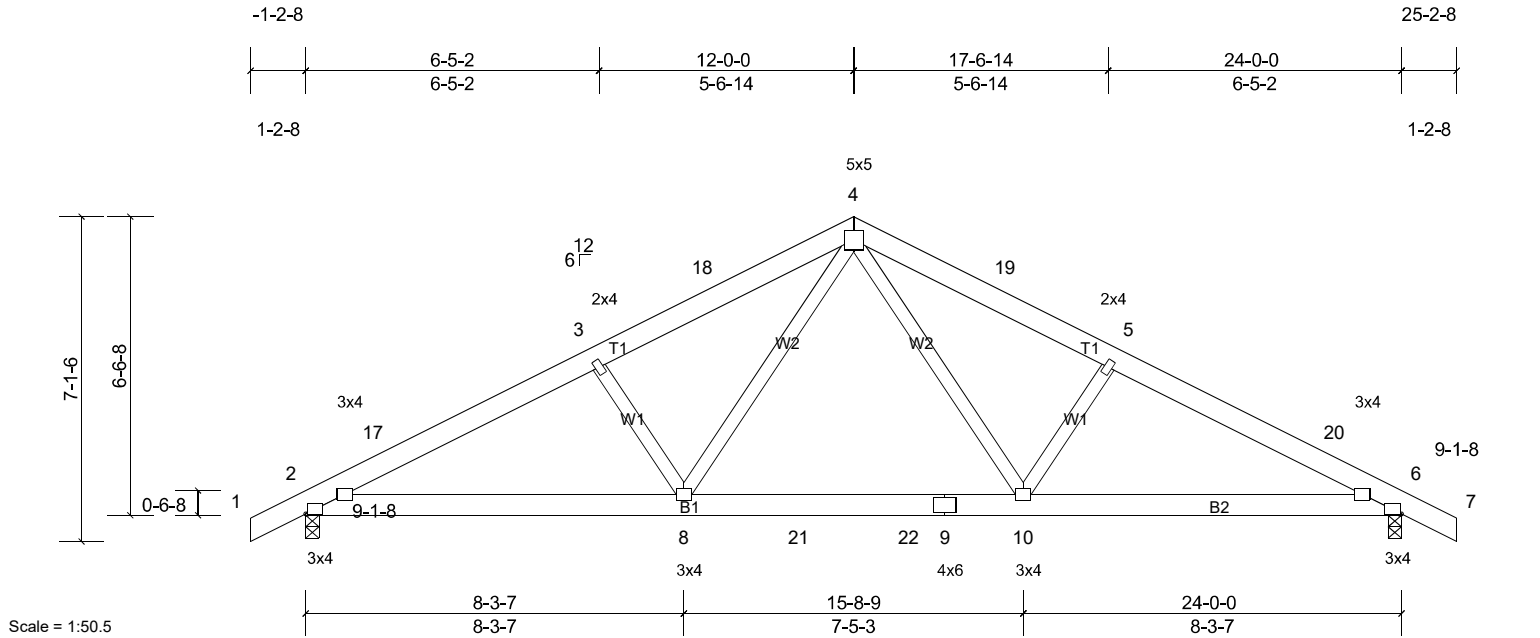


Plate Offsets (X, Y): [2:0-0-6,0-0-2], [6:0-0-6,0-0-2]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	-0.06	8-10	>999	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.10	8-10	>999	240	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.03	6	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.04	8-13	>999	240	Weight: 156 lb FT = 25%

**LUMBER**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x4 SP No.2

**BRACING**  
TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Structural wood sheathing directly applied.

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 232 lb uplift at joint 2 and 232 lb uplift at joint 6.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

**LOAD CASE(S)** Standard

**REACTIONS** (lb/size) 2=1033/0-3-8, (min. 0-1-8), 6=1033/0-3-8, (min. 0-1-8)  
Max Horiz 2=-134 (LC 13)  
Max Uplift 2=-232 (LC 12), 6=-232 (LC 13)  
Max Grav 2=1117 (LC 2), 6=1117 (LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-17=-1786/392, 3-17=-1754/416, 3-18=-1650/411, 4-18=-1584/427, 4-19=-1584/427, 5-19=-1650/411, 5-20=-1754/416, 6-20=-1786/391  
BOT CHORD 2-8=-322/1568, 8-21=-104/1066, 21-22=-104/1066, 9-22=-104/1066, 9-10=-104/1066, 6-10=-269/1568  
WEBS 4-10=-158/682, 5-10=-353/258, 4-8=-158/682, 3-8=-353/258

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-2-8 to 1-9-8, Interior (1) 1-9-8 to 12-0-0, Exterior(2R) 12-0-0 to 15-0-0, Interior (1) 15-0-0 to 25-2-8 zone;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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 30.0psf 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.