

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
DISPLAY	ROOF1	COMMON	1	1	

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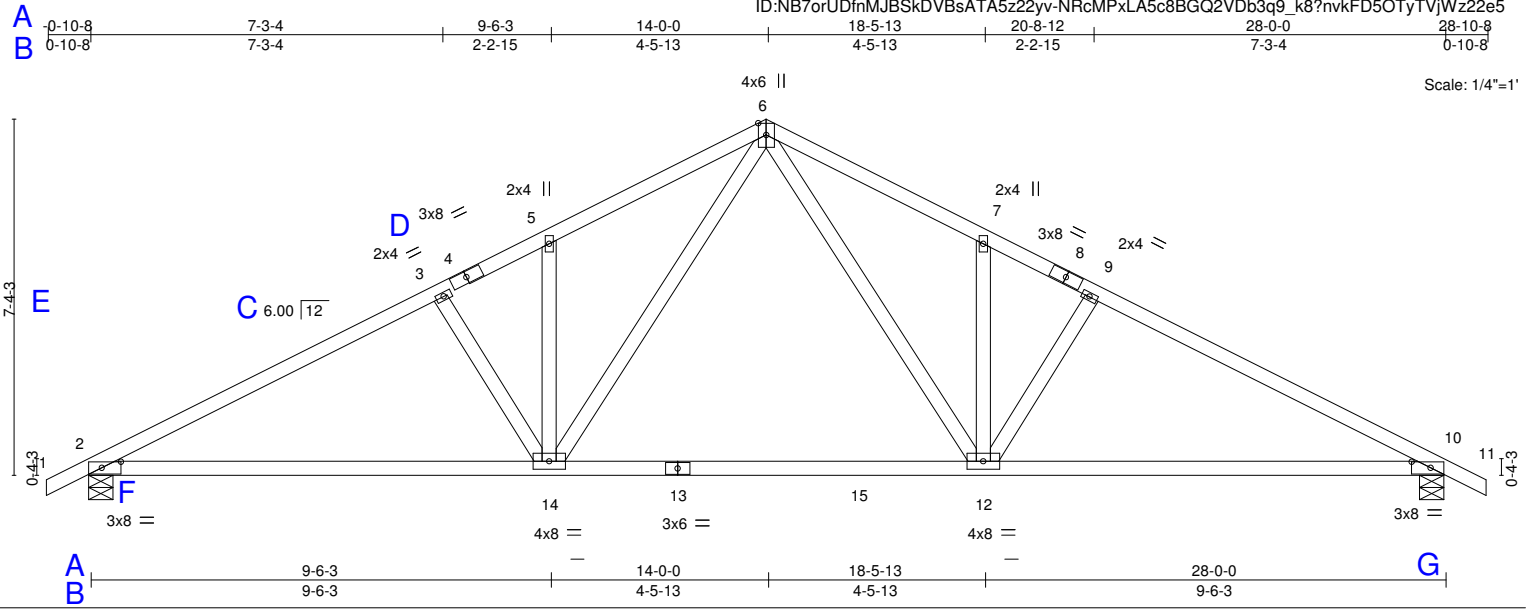


Plate Offsets (X,Y): [2:0-4-12,0-1-8], [10:0-4-12,0-1-8] H

LOADING (psf)	SPACING	J	M	CSI	N	DEFL	in (loc)	l/defl	L/d	O	P	PLATES	GRIP
TCLL 30.0 I	2-0-0 J		TC 0.93		Vert(LL) -0.31 12-14	>999	360					MT20	197/144
TCDL 10.0	Plates Increase 1.15 K		BC 0.52		Vert(TL) -0.48 10-12	>690	240						
BCLL 0.0 *	Lumber Increase 1.15 L		WB 0.24		Horz(TL) 0.08 10	n/a	n/a						
BCDL 10.0	Rep Stress Incr YES		(Matrix)		Wind(LL) 0.07 2-14	>999	240					Weight: 108 lb	FT = 20%
	Code IRC2009/TPI2007												

LUMBER	Q	U	BRACING
TOP CHORD 2x4 SPF No.2		TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD 2x4 SPF 2100F 1.8E		BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2			
REACTIONS (lb/size) 2=1369/0-6-0 (min. 0-2-7), 10=1369/0-6-0 (min. 0-2-7)	R		
Max Horz 2=77(LC 8)			
Max Uplift 2=-143(LC 8), 10=-143(LC 9)			
Max Grav 2=1540(LC 2), 10=1540(LC 2)			

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

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

TOP CHORD	2-3=-2576/187, 3-4=-2281/174, 4-5=-2260/181, 5-6=-2264/230, 6-7=-2265/230, 7-8=-2261/181, 8-9=-2282/174, 9-10=-2577/187
BOT CHORD	2-14=-157/2178, 13-14=-18/1458, 13-15=-18/1458, 12-15=-18/1458, 10-12=-81/2179
WEBS	3-14=-412/154, 6-14=-105/959, 9-12=-412/154, 6-12=-105/961

- NOTES** W
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 90mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.00 plate grip DOL=1.00
 - TCLL: ASCE 7-05; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=35.0 psf (ground snow); Ps=24.3 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.1
 - Roof design snow load has been reduced to account for slope.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 24.3 psf on overhangs non-concurrent with other live loads.
 - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 143 lb uplift at joint 2 and 143 lb uplift at joint 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.
 - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard X

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|---|---|--|
| A Cumulative Dimensions | I Design Loading (PSF) | Q Lumber Requirements |
| B Panel Length (feet - inches - sixteenths) | J Spacing O.C. (feet - inches - sixteenths) | R Reaction (pounds) |
| C Slope | K Duration of Load for Plate and Lumber Design | S Bearing Size: Input & (min. required) |
| D Plate Size and Orientation | L Code | T Maximum Uplift and/ or Horizontal Reaction if Applicable |
| E Overall Height | M TC, BC, and Web Maximum Combined Stress Indices | U Required Member Bracing |
| F Bearing Location | N Deflections (inches) and Span to Deflection Ratio | V Maximum Member Forces (Tens.[+] & Comp. [-]) |
| G Truss Span (feet - inches - sixteenths) | O Input Span to Deflection Ratio | W Notes |
| H Plate Offsets | P MiTek Plate Allowables (PSI) | X Additional Loads/ Load Cases |