



SPACING 2-0-0
Plates Increase 1.00
Lumber Increase 1.00
Rep Stress Incr YES
Code IBC2009/TPI2007

CSI
TC 0.40
BC 0.60
WB 0.48
(Matrix)

DEFL in (loc) l/defl L/d
Vert(LL) -0.08 L >999 480
Vert(TL) -0.18 K-L >968 240
Horz(TL) 0.05 I n/a n/a

PLATES **GRIP**
MT20 220/195

Weight: 72 lb FT = 10%F, 10%E

LUMBER

TOP CHORD 4 X 2 DF No.2
BOT CHORD 4 X 2 DF No.2
WEBS 4 X 2 DF Stud/No.3

BRACING

TOP CHORD
Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size)

N = 1005/0-3-8 (min. 0-1-8)
I = 1005/0-3-8 (min. 0-1-8)

FORCES (lb)

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

TOP CHORD

B-C=-2055/0, C-D=-2600/0, D-E=-2600/0,
E-F=-2600/0, F-G=-2055/0

BOT CHORD

M-N=0/1617, L-M=0/2429, K-L=0/2600,
J-K=0/2429, I-J=0/1617

WEBS

G-I=-1825/0, B-N=-1825/0, G-J=0/652,
B-M=0/652, F-J=-555/0, C-M=-555/0,
F-K=0/448, C-L=0/448

NOTES (5-8)

- 1) Unbalanced floor live loads have been considered for this design.
- 2) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 3) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

6) NOTE: The Truss Design utilizes manufacturer published metal plate connector design values and solid sawn lumber design values per ANSI/TPI 1-2007 section 6.3.1.

7) NOTE: The design of this truss has accounted for the Section 903.3.1 (International Building Code (IBC)) and NFPA 13, NFPA 13R or NFPA 13D code compliance requirements for the 250-lb installer load plus water filled pipe (up to 50-lb) non-concurrent with other live loads.

8) NOTE: The seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

LOAD CASE(S)

Standard