



Job	Truss	Truss Type	Qty	Ply	MiTek Web Site
WEB SITE	FT-01	FLOOR	1	1	3 Bearing Floor Truss Job Reference (optional)
MiTek Industries, Inc., Chesterfield, MO 63017, Chip Dean			6:00 s Feb 16 2004 MiTek Industries, Inc. Wed Feb 18 16:30:30 2004 Page 1		

A	0.40	14.00	15.00	16.00	19.10	21.21	23.00	24.00	30.00
Plate Offsets (X,Y):	[2:0-1:0,Edge]	[9:0-3:0,Edge]	[10:0-3:0,Edge]	[30:0-3:0,Edge]	[31:0-3:0,Edge]				

L	J	M	N	O	P
LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.97	in (loc) l/defl L/d	MT20 244/190	
TCDL 10.0	Plates Increase 1.00	BC 0.98	Vert(LL) -0.35 31-32 >678 360	MT20H 187/143	
BCLL 0.0	Lumber Increase 1.00	WB 0.82	Vert(TL) -0.54 31-32 >439 240	MT18H 244/190	
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.06 27 n/a n/a	Weight: 178 lb	
	Code BOCA/TPI2002				

Q	R	S	T	U	V
LUMBER	REACTIONS	FORCES	NOTES	BRACING	LOAD CASE(S)
TOP CHORD 4 X 2 SYP No.2	(lb/size) 39=937/0-3-8, 27=2066/0-3-8, 21=259/0-3-8	(lb) - Maximum Compression/Maximum Tension	1) Unbalanced floor live loads have been considered for this design.	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.	Standard
BOT CHORD 4 X 2 SYP No.1 *Except* 34-37 4 X 2 SYP No.2	Max Uplift21=-100(load case 2) Max Grav 39=956(load case 2), 27=2066(load case 1), 21=431(load case 3)	21-38=-36/0, 20-38=-36/0, 1-2=-1879/0, 2-3=-1875/0, 3-4=-1875/0, 4-5=-3448/0, 5-6=-3448/0, 6-7=-3448/0, 7-8=-2710/0, 8-9=-2684/0, 9-10=-1844/0, 10-11=-352/250, 11-12=0/2271, 12-13=0/2276, 13-14=0/1742, 14-15=-370/1284, 15-16=-373/1285, 16-17=-750/864, 17-18=-759/864, 18-19=-770/374, 19-20=-2/0, 1-39=-956/0	2) All plates are MT20 plates unless otherwise indicated. 3) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection. 4) Bearing at joint(s) 39 considers parallel to grain value using ANSI/TPI 1-1995 angle to grain formula. Building designer should verify capacity of bearing surface. 5) One RT7 USP connectors recommended to connect truss to bearing walls due to uplift at jt(s) 21. 6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails. 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means. 8) CAUTION, Do not erect truss backwards.	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.	
WEBS 4 X 2 SYP No.3		BOT CHORD 36-37=0/0, 35-36=0/2936, 34-35=0/3355, 33-34=0/3355, 32-33=0/3340, 31-32=0/1844, 30-31=0/1844, 29-30=0/1844, 28-29=-1178/0, 27-28=-1184/0, 26-27=-2276/0, 25-26=-1724/0, 24-25=-1065/582, 23-24=-1065/582, 22-23=-620/950, 21-22=-166/553			
OTHERS 4 X 4 SYP 1200F 1.2E		WEBS 9-31=-741/0, 10-30=0/749, 13-27=-1023/0, 16-24=0/3, 1-36=0/2036, 3-36=-237/0, 4-36=-1173/0, 4-35=0/566, 5-35=-258/0, 7-35=0/179, 7-32=-784/0, 8-32=-524/0, 9-32=0/1586, 11-27=-1488/0, 11-29=0/1604, 10-29=-2068/0, 19-21=-671/203, 19-22=-261/273, 18-22=-227/310, 18-23=-450/0, 16-23=0/410, 15-25=-116/34, 14-26=-635/0, 13-26=0/907, 14-25=0/1023, 16-25=-591/0			

- A** Cumulative Dimensions
- B** Panel Length (feet-inches-sixteenths)
- C** Pre-splice face plate
- D** Plate Size and Orientations
- E** Truss Depth
- F** Bearing Location
- G** Truss Span (feet-inches-sixteenths)
- H** Plate Offsets
- I** Design Loading (PSF)
- J** Spacing O.C. (feet-inches-sixteenths)
- K** Duration of Load for Plate and Lumber Design
- L** Code
- M** Top Chord, Bottom Chord and Web Maximum Combined Stress Indices
- N** Deflections (inches) and Span to Deflection Ratio
- O** Input Span to Deflection Ratio
- P** MiTek Plate Allowables (PSI)
- Q** Lumber Requirements
- R** Reaction (pounds)
- S** Maximum Bearing Required (inches)
- T** Maximum Uplift and/or Horizontal Reaction if Applicable
- U** Required Member Bracing
- V** Member Axial Forces for Load Case 1
- W** Notes
- X** Additional Loads/Load Cases
- Y** Truss Weight

MiTek Industries, Inc.
 14515 North Outer forty Drive
 Suite 300
 Chesterfield, MO 63017-5746
 (314)434-1200 Phone
 www.mii.com



SAMPLE:
 NOT FOR PRODUCTION