



Plate Offsets (X,Y): [4:0-1-8,Edge], [5:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plates Increase	1.00	TC 0.68	Vert(LL)	-0.19 15-16	>736	360	MT20	197/144
TCDL 10.0	Lumber Increase	1.00	BC 0.62	Vert(TL)	-0.36 15-16	>392	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.33	Horz(TL)	0.05 15	n/a	n/a		
BCDL 5.0	Code	IRC2006/TPI2002	(Matrix)						Weight: 108 lb

LUMBER
 TOP CHORD 4 X 2 SPF 1450F 1.3E
 BOT CHORD 4 X 2 SPF 1450F 1.3E
 WEBS 4 X 2 SPF 1450F 1.3E

BRACING
 TOP CHORD
 Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size)

24	=	753/0-3-8
15	=	495/0-3-8
18	=	1792/0-3-8

Max Grav

24	=	786(LC 7)
15	=	574(LC 3)
18	=	1792(LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

24-25	=	-102/0	1-25	=	-102/0	15-26	=	-94/0	14-26	=	-94/0
1-2	=	-5/0	2-3	=	-2210/0	3-4	=	-2210/0	4-5	=	-2353/0
5-6	=	-1817/0	6-7	=	-1817/0	7-8	=	0/1584	8-9	=	0/1584
9-10	=	0/1584	10-11	=	-1247/133	11-12	=	-1247/133	12-13	=	-1247/133
13-14	=	-5/0									

BOT CHORD

23-24	=	0/1412	22-23	=	0/2353	21-22	=	0/2353	20-21	=	0/2353
19-20	=	-189/687	18-19	=	-189/687	17-18	=	-627/557	16-17	=	-133/1247
15-16	=	0/966									

WEBS

9-18	=	-284/0	2-24	=	-1555/0	7-18	=	-1955/0	2-23	=	0/887
7-20	=	0/1355	3-23	=	-279/0	6-20	=	-273/0	4-23	=	-306/246
5-20	=	-771/0	4-22	=	-157/66	5-21	=	-53/172	13-15	=	-1063/0
10-18	=	-1505/0	13-16	=	-190/313	10-17	=	0/1019	11-17	=	-354/0
12-16	=	-124/77									

NOTES

- Unbalanced floor live loads have been considered for this design.
- Plates checked for a plus or minus 5 degree rotation about its center.
- This truss is designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S)
 Standard



FLOOR KEY

- A** - Cumulative Dimensions
- B** - Panel Length (feet - inches - sixteenths)
- C** - Cord Splice Face Plate
- D** - Plate Size and Orientation
- E** - Truss Depth
- F** - Bearing Locations
- G** - Truss Span (feet - inches - sixteenths)
- H** - Design loading (PSF)
- I** - Spacing O.C. (feet - inches - sixteenths)
- J** - Duration of Load for Plate and Lumber Design
- K** - Code
- L** - TC, BC, Web Maximum Combined Stress Indices
- M** - Deflections (inches) and Span to Deflections Ratio
- N** - Input Span to Deflection Ratio
- O** - MiTek Plate Allowables (PSI)
- P** - Lumber Requirements
- Q** - Reaction (pounds)
- R** - Minimum Bearing Required (inches)
- S** - Maximum Uplift and/or Horizontal Reaction if applicable
- T** - Required member Bracing
- U** - Member Axial Forces for Load Case 1
- V** - Notes
- W** - Additional Loads/Load Cases