

Job L213465	Truss T22R	Truss Type COFFER	City 2	Ply 1	U O	#25311
Builders FirstSource, Lake City, FL 32855			Job Reference (optional) 6/30/08 Apr 18 2008 Metek Industries, Inc. Fri Feb 01 08:27:43 2008 Page 1			

THE ADDITION OF BEARING @ JT 1
CAUSE PLATE FAIL AT 14

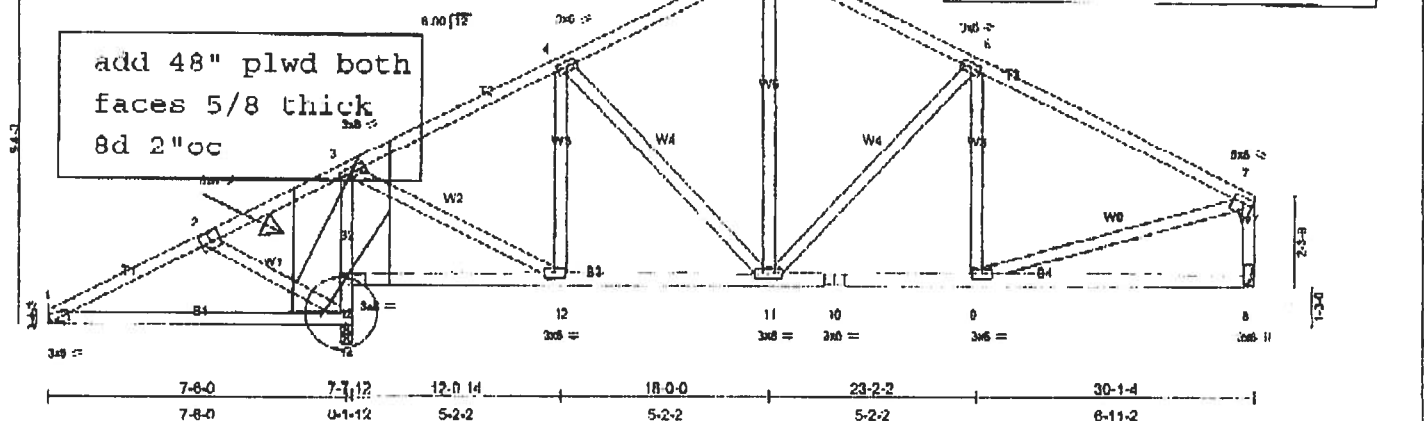


Plate Offsets (X,Y): [1:0-0-10 Edge], [2:0-3-0-3-0], [7:Edge,0-1-12]									
LOADING (psf)	SPACING	2-0-0	CSI	DEFL	In (loc)	Wdef	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	YC 0.73	Vert(LL)	0.15	1-14	>015	MT20	214/190
TCDL 7.0	Lumber Increase	1.25	BC 0.28	Vert(TL)	-0.12	1-14	>741		
ACLI 10.0	Rep Stress Incr	YCS	WB 0.31	Horz (TL)	0.01	8	n/a		
BCDL 5.0	Code FBC2004/TP2002		(Matrix)						
								Weight 176 lb	

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD
BOT CHORD 2 X 4 SYP No.2 "Except"	BOT CHORD
B2 2 X 4 SYP No.11	Structural wood sheathing directly applied or 6-10-1 or purlins, except end verticals.
WEBS 2 X 4 SYP No.3	Right ceiling directly applied or 10-0-0 or bracing, Except.
	6-0-0 or bracing: 13-14.

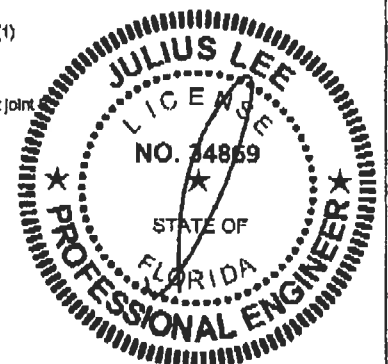
REACTIONS (lb/size) 1=305/Mechanical, 14=1205/14-B, 8=841/Mechanical
Max Horz 14=225 (load case 8)
Max Uplift 1=193 (load case 6), 14=549 (load case 5), 8=317 (load case 6)
Max Grav 1=311 (load case 9), 14=1200 (load case 1), 8=941 (load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-328/275, 2-3=-102/183, 3-4=-377/341, 4-5=-817/378, 5-6=-821/386, 6-7=-1047/385, 7-8=-832/332
BOT CHORD 1-14=-219/272, 13-14=-1015/354, 3-13=-928/366, 12-13=-160/69, 11-12=-253/728, 10-11=-237/862, 9-10=-237/862, 8-9=-78/155
WFRS 2-14=-268/227, 3-12=-187/158, 4-12=-202/115, 4-11=-154/145, 5-11=-179/407, 6-11=-319/206, 6-9=-38/85, 7-9=-175/739

JOINT STRESS INDEX
1 = 0.67, 2 = 0.25, 3 = 0.46, 4 = 0.41, 5 = 0.34, 6 = 0.41, 7 = 0.68, 8 = 0.42, 9 = 0.41, 10 = 0.32, 11 = 0.57, 12 = 0.44, 13 = 0.25 and 14 = 0.00

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: AGCE 7-02; 110mph (3-second gust), h=20ft, TCDL=4.2psf, BCDL=3.0psf, Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565/0 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 193 lb uplift at joint 1, 549 lb uplift at joint 14 and 317 lb uplift at joint 8.
5) Following joints to be plated by qualified designer: Joint(s) 14, not plated.

LOAD CASE(S) Standard



REVIEWED

By Julius Lee at 8:55 am, Feb 01, 2008

