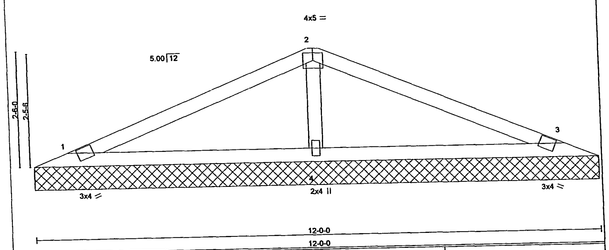
Job	Truss	Truss Type	Qty	Ply	SANYAL BOATS/ MOD: B	0029
5A08	V12-0	ROOF TRUSS	4	1	Job Reference (optional)	

5.100 s Mar 25 2003 MiTek Industries, Inc. Tue Jan 11 10:35:20 2005 Page1

BEST TRUSS CO., MIAMI, FL., BEST TRUSS CO.

5-10-8 | 6-1-8 | 12-0-0
5-10-8 | 0-3-0 | 5-10-8

Scale = 1:19.3



LOADING (psf)		SPACING 2-0-0	CSI		DEFL	in	(loc)	l/def	L/d	PLATES	GRIP
TCLL	30.0	Plates Increase 1.33	TC	0.33	Vert(LL)	n/a	-	n/a	999	MI20	249/190
TCDL	15.0	Lumber Increase 1.33	BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr YES	WB	0.10	Horz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI95	(Simplified)							Weight: 38 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=306/12-0-0, 3=306/12-0-0, 4=548/12-0-0
Max Uplift=-199(load case 2), 3=-199(load case 2), 4=-281(load case 2)

FORCES (lb) - First Load Case Only
TOP CHORD 1-2=-42, 2-3=-42
BOT CHORD 1-4=36, 3-4=36
WEBS 2-4=-442

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 140mph; h=20ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed;C-C Interior zone;Lumber DOL=1.33 plate grip DOL=1.33.
3) Gable requires continuous bottom chord bearing.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 199 lb uplift at joint 1, 199 lb uplift at joint 3 and 281 lb uplift at joint 4.
5) This truss design conforms with Florida Building Code 2001, based on parameters indicated.

LOAD CASE(S)
1) Regular: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-90.0, 2-3=-90.0, 1-3=-20.0
2) C-C Wind: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=74.4, 2-3=74.4, 1-3=-10.0
Horz: 1-2=-84.4, 2-3=84.4
3) 1st unbalanced Regular: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-90.0, 2-3=-30.0, 1-3=-20.0
4) 2nd unbalanced Regular: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-30.0, 2-3=-90.0, 1-3=-20.0

4