

Weight & Balance N82RR

Horizontal Datum: Top Longeron
 Vertical Datum: Firewall
 Forward C.G. Limit: 18.0
 Aft C.G. Limit: 27.0

Empty weight calculations (empty weight includes engine oil and unusable fuel)

Weight Point	Weight		
R1 (rt. main)	608	D=	$\frac{D1(R1+R2)+D2(R3)}{R1+R2+R3}$
R2 (lft. Main)	619.5		
R3 (tail)	79.5		
D1 (mains)	6.375	D=17.06	
D2 (tail)	182		

C.G. Calculations	<u>WEIGHT</u>	<u>ARM</u>	<u>MOMENT</u>
aircraft empty weight	1,315	17.27	22,710
fuel, main tank (25gal) 25	150	9.00	1,350
fuel, cntr tank (13gal) 5	30	8.00	240
pilot	330	70.00	23,100
parachute, pilot		70.00	-
passenger		42.00	-
parachute, passenger	-	42.00	-
baggage	-	90.00	-
totals	1,825		47,400
C.G.		25.97	

OVER GROSS FOR AEROBATICS