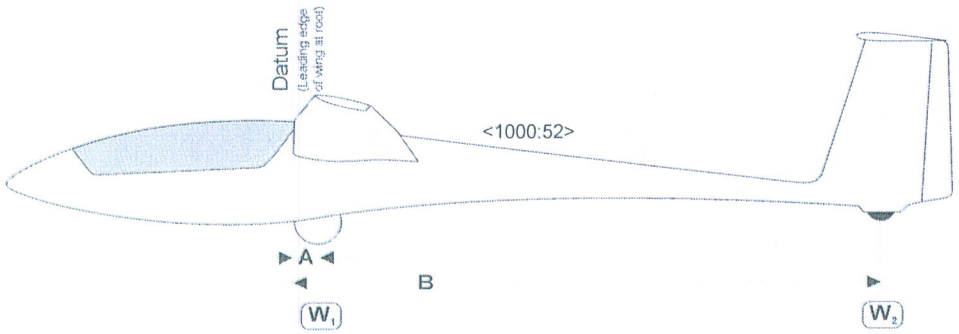
STATEMENT OF WEIGHT AND BALANCE



Aircraft Information

Manufacturer /Type: **Schleicher- ASK-21** N **202GG** S/N **21832**

Date Recorded: 4/30/2008 By: Brett R. Mayes
A&P 569452428

Installed Equipment:

2 Winter Airspeed indicators
2 United Altimeters
2 Winter Variometers
2 Accelerometers
Becker Radio
Becker Transponder
Cambridge L-Nav Vario / GPS
2 22 cuft O2 cylinders
2 Mountain High EDS O2 systems
1 7AH battery

Limits:

Forward CG Limit:	**9.21 in.**
Aft CG Limit:	**18.46 in.**
Max Gross Weight	**1320 Lbs.**

Weights / Wing Loading:

Wing Area	**193.0 Sq. Ft**
Empty Weight	**853.5 Lbs.**
As Flown Wt.	**853.50 Lbs.**
Empty	**4.42 Lbs/Sq. Ft.**
As Flown	**4.42 Lbs/Sq. Ft.**

Measured Data:

A = **25.95 in.** datum to main gear
B = **212.70 in.** datum to tail wheel

W_1 (Empty) = **834.0 Lbs.** W_1 (As Flown) = **.0 Lbs.**
W_2 (Empty) = **19.5 Lbs.** W_2 (As Flown) = **.0 Lbs.**

Center of Gravity:

$$CG = \frac{(W_1*A)+(W_2*B)}{(W_1+W_2)}$$

CG (Empty) = **30.22 in.**
CG (As Flown) = **30.22 in = 227.1%** of allowable aft limit

Reference Data:

	Weight	Arm	Moment
Glider - Empty	853.5 Lbs.	30.22 in.	25,790 in./Lbs.
As Flown			in./Lbs.
Front Pilot	.0 Lbs.	-46.65 in.	
Rear Pilot	.0 Lbs.	-3.15 in.	
Panel Equip.			
Baggage	.0 Lbs.	9.84 in.	
			25,790 in./Lbs.
			30.22 in