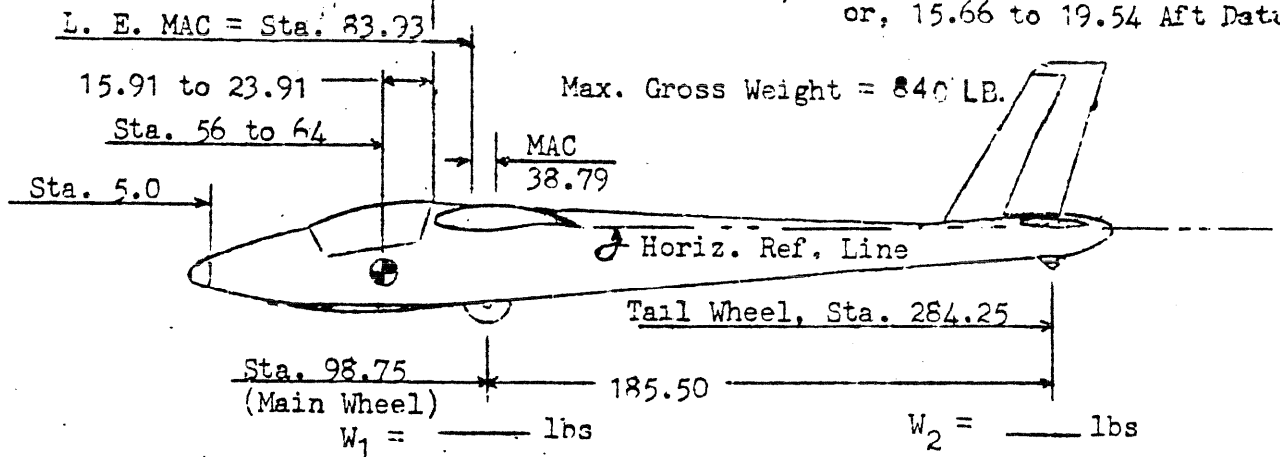


WEIGHT AND BALANCE

MODEL: DGS 1-34 SER. NO. _____ REG. NO. _____ CG LIMITS: 30% to 40% MAC, or
 Datum = Sta. 79.91 (Wing L. E. at Root) Sta. 95.57 to 99.45,
 L. E. MAC = Sta. 83.93 or, 15.66 to 19.54 Aft Datum



Empty Weight = $W_1 + W_2 = \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$ lbs
 (Empty Weight includes equipment, as listed on I-4518-2)

C. G. Empty = $\frac{W_2 \times 185.5 + 98.75}{(W_1 + W_2)} = \frac{\underline{\hspace{2cm}} \times 185.5}{\underline{\hspace{2cm}}} = \underline{\hspace{2cm}} + 98.75 = \underline{\hspace{2cm}}$

Step 1. Minimum Weight Pilot (Seat Fwd) = $\frac{(C.G. \text{ Empty} - 99.45) \times \text{Empty Weight}}{43.45} = \frac{\underline{\hspace{2cm}} \times \underline{\hspace{2cm}}}{43.45} = \underline{\hspace{2cm}}$ lbs

Step 2. Minimum Weight Pilot (Seat Aft) = $\frac{(C.G. \text{ Empty} - 99.45) \times \text{Empty Weight}}{35.45} = \frac{\underline{\hspace{2cm}} \times \underline{\hspace{2cm}}}{35.45} = \underline{\hspace{2cm}}$ lbs

Step 3. Maximum Wt. Pilot = Max. Gross Wt. - Empty Weight = 840 - $\underline{\hspace{2cm}}$ = $\underline{\hspace{2cm}}$ lbs

Step 4. Maximum Weight Pilot (Seat Fwd) = $\frac{(C.G. \text{ Empty} - 95.57) \times \text{Empty Weight}}{39.57} = \frac{\underline{\hspace{2cm}} \times \underline{\hspace{2cm}}}{39.57} = \underline{\hspace{2cm}}$ lbs

Step 5. Maximum Weight Pilot (Seat Aft) = $\frac{(C.G. \text{ Empty} - 95.57) \times \text{Empty Weight}}{31.57} = \frac{\underline{\hspace{2cm}} \times \underline{\hspace{2cm}}}{31.57} = \underline{\hspace{2cm}}$ lbs

Placard Limits: Min. Wgt. Pilot (Use Lwr. Wgt. from Step 1 or 2) = $\underline{\hspace{2cm}}$ lbs

Max. Wgt. Pilot (Use Lwr. Wgt. from Step 3, 4, or 5) = $\underline{\hspace{2cm}}$ lbs

Calculated by _____ Date _____

Checked by: _____

SCHWEIZER AIRCRAFT CORP.
Elmira, New York 14902
FORM I-4640 5/74

Model: SGS 1-34_____
Ser. No.: _____
Reg. No.: _____

CALCULATED WEIGHT AND BALANCE

	<u>WEIGHT</u>	<u>STATION</u>	<u>MOMENT</u>
Ship Empty (from wt. & bal. dated _____)	.	.	,
Equipment items added/removed:			

$$\text{MIN. WEIGHT PILOT, Seat Fwd.} = \frac{(\text{CG Empty} - 99.45) \times \text{Empty Wt.}}{43.45} = \frac{x}{43.45} = \text{_____} \text{ lbs.}$$

* MAX. WEIGHT PILOT:

1. (Seat Aft) = MAX. GROSS WT. - Empty Wt. = 840 - _____ = _____ lbs.

2. (Seat Fwd) = $\frac{(\text{CG Empty} - 95.57) \times \text{Empty Wt.}}{39.57} = \frac{x}{39.57} = \text{_____} \text{ lbs.}$

* Use lower weight from calculations 1. & 2. = _____ lbs.

Calculated By _____, Date _____

Checked By _____, Date _____

Schweizer Aircraft Corporation
Elmira, New York 14902

Form I-4518-2
1/70
REV. 6-71

WEIGHT AND BALANCE, SGS 1-34 _____ Serial No. _____ Reg. No. _____

The Empty Weight listed on I-4518-1 includes the following equipment:

DATE _____

Item	Equipment	Weight	Arm	Momen
	REQUIRED:			
1.	Airspeed Indicator	1.00	34.00	34
2.	Altimeter	1.00	34.00	34
3.	Magnetic Compass	1.00	34.00	34
()	Fixed Ballast on Nose Bulkhead		5.00	
	OPTIONAL:			