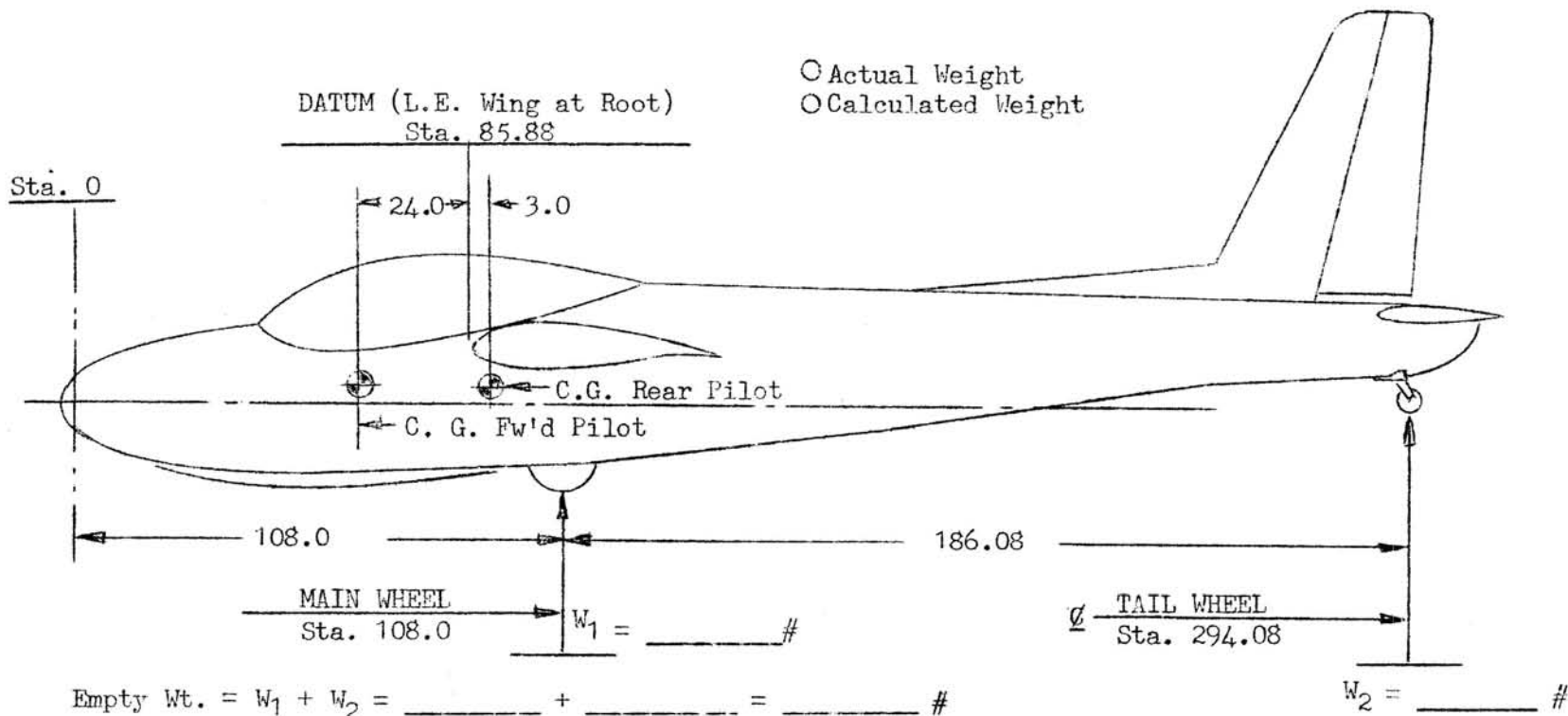


WEIGHT & BALANCE, MODEL NO. SGS 2-32 SER. NO. \_\_\_\_\_ REG. NO. \_\_\_\_\_ DATE: \_\_\_\_\_



Empty Wt. =  $W_1 + W_2 = \text{_____} + \text{_____} = \text{_____} \#$

Empty C.G. (Sta.) =  $\frac{W_2 \times 186.08}{W_1 + W_2} + 108 = \text{_____} + 108.0 = \text{Sta. _____}$

SHIP AS WEIGHED INCLUDES EQUIPMENT LISTED ON I-4356-3

NOTES: See Glider Data Sheet No. G1EA - Fw'd Pilot C.G. at Sta. 61.88 - Rear Pilot C.G. at Sta. 88.88

CLASS I, HIGH PERFORMANCE: C. G. Limits at Maximum Weight (1340#), Sta. 101.08 to Sta. 105.18 or 15.2 to 19.30" Aft Datum.

C. G. Limits at 1150 lbs. or less, Sta. 101.08 to Sta. 106.38 or, 15.2 to 20.50" Aft Datum.

CLASS II, UTILITY:

C. G. Limits at Maximum Weight (1430#) Sta. 101.08 to Sta. 105.18 or 15.2 to 19.3" Aft Datum.

C. G. Limits at 1340 lbs. or less, Sta. 101.08 to 106.38 or, 15.2 to 20.5" Aft Datum.

WEIGHT & BALANCE, MODEL SGS 2-32

SER. NO. \_\_\_\_\_ REG. NO. \_\_\_\_\_

USEFUL LOAD: = Max. Gross Weight - Empty Weight = Useful Load in lbs.

For Class I, High Performance Operation . . \*1340 - \_\_\_\_\_ = \_\_\_\_\_ lbs

For Class II, Utility Operation . . . . . \*1430 - \_\_\_\_\_ = \_\_\_\_\_ lbs.

MIN. WEIGHT PILOT - SOLO - FRONT SEAT:

$$\text{Pilot Weight} = \frac{\text{Empty Weight (C.G. Empty - 106.38)}}{44.50} = \frac{\text{_____} \times (\text{_____} - 106.38)}{44.50} = \text{_____}$$

$$\frac{\text{_____}}{44.50} \times \text{_____} = \text{_____ lbs.}$$

(This formula valid for Class I operation only when empty weight + pilot weight does not exceed 1130#, weights above this total indicate Class II operation).

MIN. WEIGHT REAR PILOT, (ASSUMING A 100# FWD. PILOT):

	<u>Weight</u>	<u>Arm</u>	<u>Moment</u>
Ship Empty			
Fwd. Pilot	100	62.00	6,200
Rear Pilot	_____	89.00	_____
Total			

MAX. WEIGHT REAR PILOT, (ASSUMING 220# FWD. PILOT):

(Use lower weight from Step #1 or #2 for Max. Rear Pilot Wgt.)

STEP #1: Pilot Wgt. =  $\frac{\text{Empty Wgt. (C.G. Empty - 101.08 - 8597)}}{12.20} = \text{_____}$

$$\frac{\text{_____}}{12.20} \times (\text{_____} - 101.08 - 8597.0) = \frac{\text{_____} \times (\text{_____} - 8597.0)}{12.20} = \text{_____ lbs.}$$

STEP #2: Class I: Pilot Wgt. = \*1340 - (Empty Wgt. + 220) = 1340 - ( \_\_\_\_\_ + 220) = \_\_\_\_\_ lbs.

Class II: Pilot Wgt. = \*1430 - (Empty Wgt. + 220) = 1430 - ( \_\_\_\_\_ + 220) = \_\_\_\_\_ lbs.

\* Maximum Gross Weight: 1340# (For Class I, High Performance)  
 : 1430# (For Class II, Utility)

Prepared by: \_\_\_\_\_ Checked by: \_\_\_\_\_

Date: \_\_\_\_\_ Date: \_\_\_\_\_

MODEL SGS 2-32

Date: \_\_\_\_\_

SER. NO. \_\_\_\_\_ REG. NO. \_\_\_\_\_

The Empty Weight as shown on I-4356-1 includes the following equipment:

ITEM NO.	EQUIPMENT INSTALLED	WEIGHT	STA.	MOMENT
A.	Fixed Ballast _____ pcs. Lead (48# Max.)(Dwg.#32919D)		2.70	
1.	Airspeed Indicator		37.00	
2.	Sensitive Altimeter		37.00	
3.	Magnetic Compass, #C2300		37.00	
4.	Variometer, PZL, 0-1000'		37.00	
5.	a. Variometer, Cambridge #CVS60D 14V.		37.00	
	b. Audio Variometer, Cambr., #AU-22		37.00	
6.	Ball Bank Indicator, QMI		37.00	
7.	Dual Seat Belt & Shld'r Harness - Rear		102.00	
8.	Wing Tip Wheels, (2) @ 1.8#		112.00	
9.	a. Radio, Mentor TR-12		35.00	
	b. Battery		35.00	
	c. Antenna		131.00	