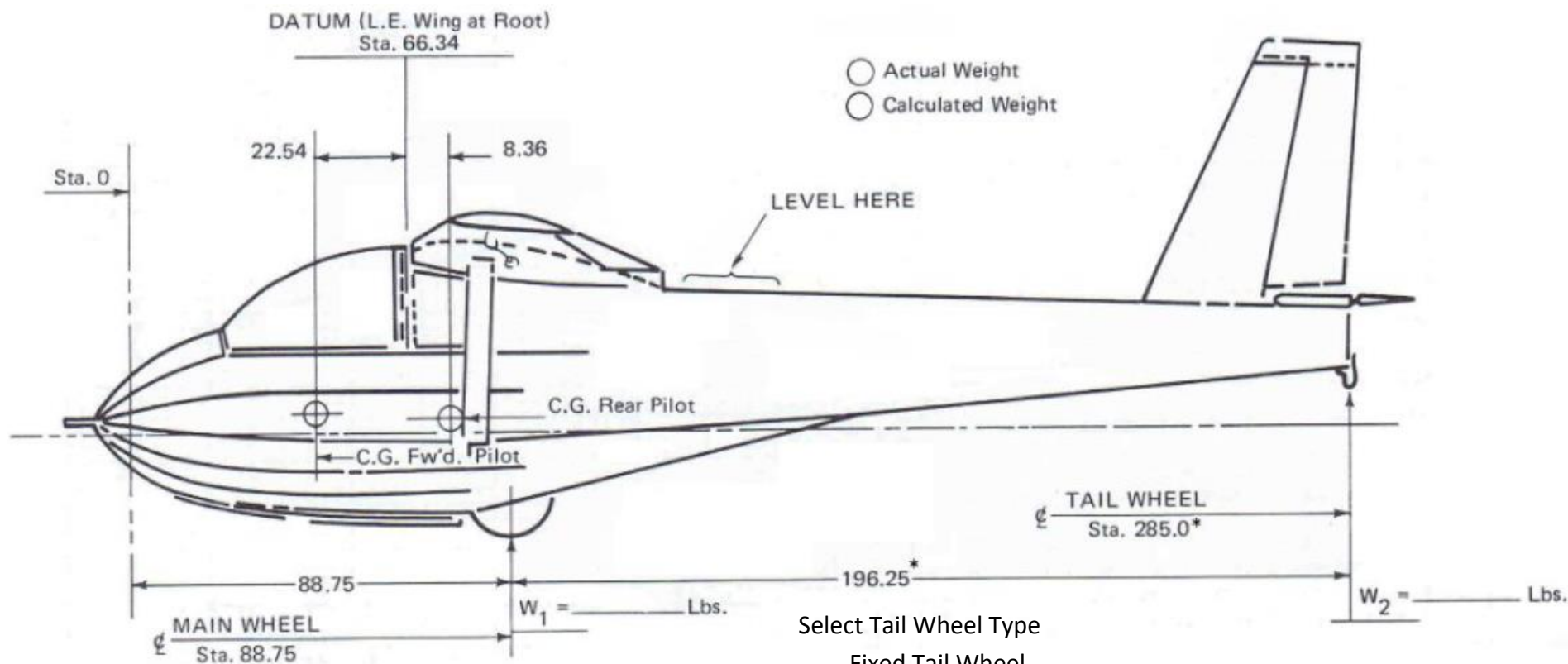




2-33 Weight & Balance

| | | | | | |
|------------|--|----------|--|------|--|
| Serial No. | | Reg. No. | | Date | |
|------------|--|----------|--|------|--|



Empty Weight: $W_E = W_1 + W_2 = \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$ lbs

C.G. Empty (Sta.): $CG_{EFT} = \frac{(W_2 \times 196.25 \text{ or } 207.08^*)}{W_E} + 88.75 = \frac{(\underline{\hspace{2cm}} \times \underline{\hspace{2cm}})}{(\underline{\hspace{2cm}})} + 88.75 = \text{Sta. } \underline{\hspace{2cm}}$

Select Tail Wheel Type
Fixed Tail Wheel
Spring Tail Wheel

Wing Panel Weights**:

 LH
 RH

SHIP AS WEIGHED INCLUDES EQUIPMENT LISTED ON I-4427 Sht. 3

Notes: See Glider Data Sheet No. G2EA – Fwd Pilot C.G. at Sta. 43.80 – Rear Pilot C.G. at Sta. 74.70

CLASS II, UTILITY: C.G. Limits – Sta. 78.20 to Sta. 86.10 or 11.86" to 19.76" Aft Datum

* If aircraft is equipped with spring tail wheel the 196.25" dimension changes to 207.08" and tail wheel Sta. 285.0 becomes 295.8

**Wing weight must be a minimum of 155# and aircraft must have 33928 kit installed to be eligible for 1080# gross weight.



2-33 Weight & Balance

| | | | | | |
|------------|--|----------|--|------|--|
| Serial No. | | Reg. No. | | Date | |
|------------|--|----------|--|------|--|

C.G. Conditions – Aft Limit

Minimum Weight Pilot Solo (Front Seat):

$$= \frac{\text{Empty Wt. (C.G. Empty - 86.10)}}{42.30} = \frac{(\quad - 86.10)}{42.30} = \quad \text{lbs}$$

Minimum Weight Rear Pilot (Assuming 100# Fwd Pilot):

$$= \frac{\text{Empty Wt. (C.G. Empty - 86.10)}}{11.40} - 372 = \frac{(\quad - 86.10)}{11.40} - 372 = \quad \text{lbs}$$

C.G. Conditions – Forward Limit

Maximum Weight Pilot Solo (Front Seat):

$$= \frac{\text{Empty Wt. (C.G. Empty - 78.20)}}{34.40} = \frac{(\quad - 78.20)}{34.40} = \quad \text{lbs}$$

Maximum Weight Rear Pilot (Assuming 220# Fwd Pilot):

Select Gross Weight*

1040# Gross Weight

1080# Gross Weight

$$\text{Step \#1} = \frac{\text{Empty Wt. (C.G. Empty - 78.20)}}{3.50} - 2162$$

$$= \frac{(\quad - 78.20)}{3.50} - 2162 = \quad \text{lbs}$$

$$\text{Step \#2} = \text{Gross Weight}^* - (\text{Empty Weight} + 220)$$

$$= (\quad + 220) = \quad \text{lbs}$$

Use Lower Weight From Step 1 or Step 2 for Max. Rear Pilot Weight.

*** 1040# or 1080# Maximum Gross Weight**

| | | | |
|--------------|--|-------|--|
| Prepared By: | | Date: | |
| Checked By: | | Date: | |



2-33 Weight & Balance

| | | | | | |
|------------|--|----------|--|------|--|
| Serial No. | | Reg. No. | | Date | |
|------------|--|----------|--|------|--|

The Empty Weight As Listed on Page 1 Includes the Following Equipment

| Item No. | Equipment Installed | Weight | Sta. | Moment |
|----------|---------------------|--------|------|--------|
| | | | | |