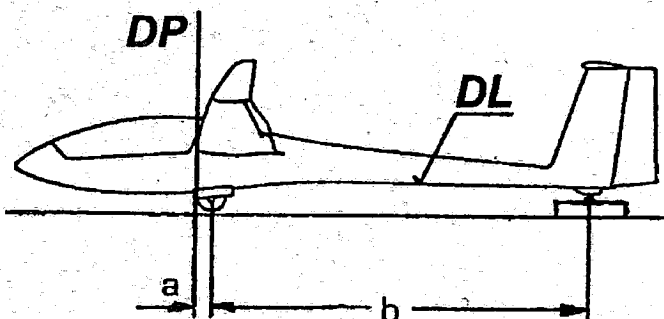


Weight and Balance

Datum Line <DL>: Under side of fuselage boom placed horizontal
Datum Point <DP>: Leading edge of wing at root

1. Determine total weight (Empty or take-off weight) for both wing span versions, in most cases by weighing all parts and adding together.
2. Assemble the sailplane in the 15 m version according to instructions in Flight Manual pages 4-1/2. For in-flight C.G. position, the pilot must be seated in the sailplane.
3. Raise tail on weighing machine until datum line is level using wooden blocks or adjustable rack. Check with levelling gauge.
4. Measure distance from tail support to centre of landing gear axis.
5. Using plumb lead, determine points on floor perpendicular to left and right datum points, and points on floor perpendicular to centre of landing gear axis. Measure distance <a> from wheel axis to datum point.



6. Determine tail weight and deduct weight of auxiliary support used under 3) to get net tail weight.
7. Calculate C.G. position for full vertical tail fin-tank:

$$X_{cg} = \frac{(\text{net tail weight} + \text{tail fin water weight}) * b}{\text{total weight} + \text{tail fin water weight}} + a$$

Calculate C.G. position for empty vertical tail fin tank:

$$X_{cg} = \frac{\text{net tail weight} * b}{\text{total weight}} + a$$

8. When a battery is fitted in the vertical tail fin, weighing must be done in this configuration. Weigh tail fin battery separately. (Maximum 2.6 kg <5.7 lbs>).
9. Calculate loading limits according to page 2-2.

Form for Weighing Report for copying see Maintenance Manual, page 14-4.

Erstellt: 28.02.00 <i>Heuck</i>	Geprüft: <i>Wapka</i>	Complies:
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