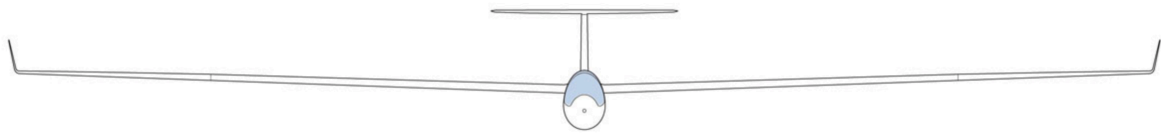




HIGH PERFORMANCE SAILPLANE ENDORSEMENT



ENGINEERING, DATA AND PERFORMANCE

TYPE

Name :

GFA:

Instructor:

GFA:

(Signature/Name)

Satisfactorily Completed on: / /



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THE ENDORSEMENT QUESTIONNAIRE

In order to be granted an endorsement on a higher performance aircraft, it is very important that you are familiar with all aspects of operating the sailplane

This questionnaire will to guide you through the Flight Manual and placards and ensure you have received adequate information about the sailplane.

The club will keep a copy of this document as proof of your training.

HOW TO COMPLETE THIS DOCUMENT

You should use references such as Flight Manuals and Placards.

Note that some questions may not apply to the aeroplane type on which you are being endorsed. You should mark these 'N/A' (not applicable).



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1 Operating Data and Limitations

1.1 General Data

a. What is the make and model of the sailplane ?

b. In which Category/Categories is the sailplane permitted to fly?

c. Is the aircraft approved for any Aerobatics ? YES/NO

d. Is the aircraft approved for Cloud Flying in Australia? YES/NO

e. What is the best L/D and at what speed? _____

f. What is the wing span and wing loading? _____

1.2 Airspeed Limits

a. List the applicable Airspeeds in knots for the sailplane

*Stall Speed (V_S) : _____ knots

* Note Specified as $1.1 \times V_S (V_{S1})$ in some manuals. If this is the case, calculate V_S from this data

Maximum Speed (V_{NE}) : _____ Knots

Max Rough Air : _____ Knots

Max Manoeuvre (V_M) : _____ Knots

Max Aerotow : _____ Knots

Max Winch : _____ Knots

Max Landing Flap : _____ knots

Max Positive Flap : _____ Knots

Max Airbrakes Extended : _____ Knots

Max Undercarriage op : _____ knots



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2 Normal Procedures

2.1 Launching

a. Fill in the weak link table below :

Launch Type	Weak Link	Colour
Winch		
Aerotow		

a. Describe the winch launch procedure including any flap position or sequence ?

b. Describe the aerotow launch procedure including any flap position or sequence ?

2.2 In Flight

a. Fill in the table of flap speeds below :

Application	Flap Position	Airspeed Range



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2.3 Approach and Landing

- a. What is the safe speed for landing in Australia ? _____
- b. What approach speed does the flight manual recommend ? _____
- c. If they are different, Why ?

- d. What should you consider if undershooting in a flapped aircraft ?

- e. Are there any considerations or limitations on sideslipping ?

2.4 Aerobatics

- a. List any rated aerobatic manoeuvres

- b. Are there any considerations or limitations on aerobatics

2.5 Water Ballast

- a. Where are the water ballast fill points?

- b. Where are the water ballast dump points?

- c. What equipment is needed to ballast this glider?



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d. What dangers are associated with ballasting a glider?

e. Can you land this aircraft with water ballast ?



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3 Emergency Procedures

- a. Describe the procedure to jettison the canopy ?

- a. What are the considerations if water ballast is uneven due to a dump fault ?

- a. What is the safe speed near the ground in the event of a launch failure ?

- a. What is the stated spin recovery ?



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4 Weight and Balance

- a. What is the Max AUW ? _____
- b. What is the Empty Weight ? _____
- c. How Many Seats does this sailplane have ? _____
- d. What is the Minimum Pilot Weight ? _____
- e. What is the Maximum Cockpit Load _____
- f. What is the Maximum Water Ballast Capacity ? _____
- g. If a two seater, how much does the rear pilot contribute in lowering the minimum pilot weight in the front seat ? _____
- h. Show calculations for how much water ballast you can carry if flying solo and state where you found this data



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5 Rigging and Derigging

i. How many mainpins does this glider have ? _____

j. How do the controls rig ?

k. How does the tailplane rig ?



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END