THE GLIDING FEDERATION OF AUSTRALIA



GFA AN 119

(ISSUE 1)

AIRWORTHINESS ADVICE NOTICE FLIGHT TESTING AMATEUR BUILT SAILPLANES

SUBJECT:	_	Flight Testing to determine general sailplane handling of a Type Approved Amateur Built aircraft.			
BACKGROUND:	Built sailpl Certification	lane which is of n each sailplane mus	orthiness to be issued for an Ama a Type which already has a st be tested to ensure it exhibits go arcraft on which the Type Accept	Type good	
FLIGHT DATA:	Type:	VH	Test Number:		
	Pilot:	Place:	Date:		
	Gross weig	ht:	CG Position:		
	Temperatur	re:	Air pressure:		
TAKE OFF (AEROTO	OW):				
	Wind streng	gth:	and the same of th		
	Wind direct	ion:			
	Runway dir	ection:			
	Runway sur	face:	TPARTITION OF THE PARTITION OF THE PARTI		
	a) Rudder (Control:			
	b) Aileron (Control:			
	c) Elevator	Control:			
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SIGNED: CHIEF TECHN	LL SI	THE	and on behalf of: GLIDING FEDERATION OF AUSTRALIA	-	
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	To be flown in high and low tow to V_T .	
	Assessment:	*
		<u></u>
	Operation of cable release:	
	Operation of cable release:	
		····
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TAKEOFF (WINCH):		
	Wind Strength:	
	Wind direction:	
	Runway direction:	
	Runway Surface:	
	a) Rudder Control:	
·		·
	b) Aileron Control:	
	c) Elevator Control (is the rotation normal):	
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DIVE TO V_{NE}

STALL EVALUATION:

Starting at the highest speed already flown the speed should be increased by 10 kts. Stabilise the speed and check the sailplane for general controllability, vibration, snatching of controls etc. If all checks out OK then give the control column a tap in both pitch and roll directions and observe for any tendency to flutter. The feet should be removed from the rudder and a rudder pedal gently tapped.

Repeat until V_{NE} is reached. Near V_{NE} the speed should be increased in 5 kt increments. Comment: Any indications of flutter: Is the sailplane fully controllable up to V_{NE} : Fly with a level attitude. Trim at about 45 kts and reduce speed at 1 kt per second. Was stall limited by up stop? Type of stall warning:

		ched or entere on the rear st
Run	Condition (flaps, dive brakes etc.)	IAS at stal
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Stall char	racteristics in 30° bank:	
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SPINNING (ONLY FOR TYPES PERMITTED INTENTIONAL SPINS)

	Enter the spin from the nose low position (See the Instructors Handbook Part 2 page 35).
	Comment on spin entry:
	Did the sailplane self recover (enter a spiral dive):
	Did the standard recovery action work (See the Instructors Handbook Part 2 page 35).
TURNING FLIGHT:	
	Does the sailplane tend to stay in the turn or does the turn tighten or flatten out.
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	Measure the time to reverse a turn from +45° to -45°.
SIDESLIPPING:	3
-	Perform a sideslip in both directions.
•	Rudder effectiveness:

	Aileron effectiveness:		
	Open dive brakes during slip:		
	Recovery:		
DIVEBRAKE ACTION:			
	Fly at 1.3 times the stall speed and extend the dive brakes fully. Measure the time to descend 500 ft.		
	1.3 x (stall speed) = kts		
	Time to descend 500 ft:		
	Pilot load at circuit speed:		
	Pilot load at max dive brake speed:		
	Pitch change when divebrakes are extended:		
	Dive brake effectiveness:		
	Did dive brakes snatch out:		

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	Trim at 1.5 x Stall Speed. Increase speed by 10 kts and gently release the control column.
	Describe behaviour:
LANDING SEQUENCE:	
	Wind strength:
	Wind direction:
	Runway direction:
	Runway Surface:
	Perform a normal approach (1.5 x stall speed plus 0.5 x wind speed)
	Record approach speed:
	Controllability on approach:
	Flare and touchdown:
	Ground roll and braking:
OTHER COMMENTS:	
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