Flight test report

Manufacturer Aerodyne Technologies

Address 167 chemin de Verdun, Pas de l'echelle

74100 Etrembieres

Representive none
Type of glider Joy XS
Trimmer Jot available

 Certification number
 PG 094.2007

 Date of flight test
 03/08/2007

 Place of test
 Villeneuve



Classification B

Test Pilot Seiko Fukuoka Harness supair altilumu

Total weight in flight 65 kg

Claude Thurnheer sup air light 42 cm 75 kg

	Total weight in flight	65 kg		75 kg	
		Min weight		Max weight	
1. Inflation/Tal					
	Rising behaviour Special take off technique required	Smooth, easy and constant rising No	A	Smooth, easy and constant rising No	A A
2. Landing					
3. Speed in st	Special landing technique required	No	Α	No	Α
o. opeeu iii sti	Trim speed more than 30 km/h	Yes	Α	Yes	Α
	Speed range using the controls larger than 10 km/h	Yes	Α	Yes	Α
4.0	Minimum speed	Less than 25 km/h	Α	Less than 25 km/h	Α
4. Control mo	vement Max. weight in flight up to 80 kg				
	Symmetric control pressure/travel	Increasing, Greater than 55 cm	Α	Increasing, Greater than 55 cm	Α
	Max. weight in flight 80 kg to 100 kg				_
	Symmetric control pressure/travel Max. weight in flight greater than 100 kg	not available	0	not available	0
	Symmetric control pressure/travel	not available	0	not available	0
5. Pitch stabili	ity exiting accelerated flight				
	Dive forward angle on exit	Dive forward less than 30°	A	Dive forward less than 30°	A
6. Pitch stabili	Collapse occurs ity operating controls during accelerated flight	No	Α	No	Α
	Collapse occurs	No	Α	No	Α
7. Roll stabilit	y and damping	Deductor	,	Destroites	
8. Stability in	Oscillations	Reducing	Α	Reducing	Α
o. Glability III	Tendency to return to straight flight	Spontaneous exit	Α	Spontaneous exit	Α
9. Behaviour i	n a steeply banked turn	•			
10.0	Sink rate after two turns	12 m/s to 14 m/s	Α	More than 14 m/s	В
10. Symmetric	: front collapse Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
	Dive forward angle on exit	Dive foward 0°to 30°, Keeping course	Α	Dive foward 0°to 30°, Keeping course	Α
	Cascade occurs	No	Α	No	Α
	With accelerator Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
	Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
	Dive forward angle on exit	Dive foward 0°to 30°, Keeping course	Α	Dive foward 0°to 30°, Keeping course	Α
	Cascade occurs	No	Α	No	Α
11. Exiting de	ep stall (parachutal stall) Deep stall achieved	Yes	Α	Yes	Α
	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	A
	Dive forward angle on exit	Dive forward 0°to 30°	Α	Dive forward 0°to 30°	Α
	Change of course	Changing course less than 45°	Α	Changing course less than 45°	A
12 High angle	Cascade occurs of attack recovery	No	Α	No	Α
12. High angle	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
	Cascade occurs	No	Α	No	Α
13. Recovery	from a developed full stall	Divertement 00to 000		Divertended on the con	
	Dive forward angle on exit Collapse	Dive forward 0°to 30° No collapse	A	Dive forward 0°to 30° No collapse	A A
	Cascade occurs (other than collapse)	No	Α	No	A
	Rocking back	Less than 45°	Α	Less than 45°	Α
	Line tension	Most line tight	Α	Most line tight	Α
14. Asymmetr	ic collapse With 50% collapse-Maximum dive forward or roll angle				
	Change of course until re-inflation	Less than 90°, Dive or roll angle 0° to 15°	Α	Less than 90°, Dive or roll angle 0° to 15°	Α
	Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
	Total change of course	Less than 360°	Α	Less than 360°	Α
	Collapse on the opposite side occurs	No No	A	No No	A
	Twist occurs Cascade occurs	No No	A	No	A A
	With 75% collapse-Maximum dive forward or roll angle		,,	110	^`
	Change of course until re-inflation	Less than 90°, Dive or roll angle 0° to 15°	Α	Less than 90°, Dive or roll angle 15° to 45°	Α
	Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	A
	Total change of course Collapse on the opposite side occurs	Less than 360° No	A A	Less than 360° No	A A
	Twist occurs	No	A	No	A
	Cascade occurs	No	Α	No	A
	With 50% collapse and accelerator-Maximum dive forward of				
	Change of course until re-inflation	Less than 90°, Dive or roll angle 0° to 15° Spontaneous re-inflation	A	Less than 90°, Dive or roll angle 0° to 15°	A
	Re-inflation behaviour Total change of course	Spontaneous re-inflation Less than 360°	A	Spontaneous re-inflation Less than 360°	A A
	Collapse on the opposite side occurs	No		No	A

	Twist occurs	No	Δ	No	Α
	Cascade occurs	No	Α	No	Α
	With 75% collapse and accelerator-Maximum dive forward or				
	Change of course until re-inflation	Less than 90°, Dive or roll angle 15° to 45°	Α	Less than 90°, Dive or roll angle 15° to 45°	Α
	Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
	Total change of course	Less than 360°	Α	Less than 360°	Α
	Collapse on the opposite side occurs	No	Α	No	Α
	Twist occurs	No	Α	No	Α
	Cascade occurs	No	Α	No	Α
15. Directiona	al control with a maintained asymmetric collapse				
	Able to keep course	Yes	Α	Yes	Α
	180° turn away from the collapsed side possible in 10 s	Yes	Α	Yes	Α
	Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	Α	More than 50 % of the symmetric control travel	Α
16. Trim spec	ed spin tendency				
	Spin occurs	No	Α	No	Α
17. Low spee	d spin tendency				
	Spin occurs	No	Α	No	Α
18. Recovery	from a developed spin				
	Spin rotation angle after release	Stops spinning in less than 90°	Α	Stops spinning in less than 90°	Α
	Cascade occurs	No	Α	No	Α
19. B-line sta	II .				
	Change of course before release	Change of course less than 45°	Α	Change of course less than 45°	Α
	Behaviour before release	Remains stable with straight span	Α	Remains stable with straight span	Α
	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
	Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
	Cascade occurs	No	Α	No	Α
20. Big ears					
	Entry procedure	Dedicated controls	Α	Dedicated controls	Α
	Behaviour during big ears	Stable flight	Α	Stable flight	Α
	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
	Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
21. Big ears i	n accelerated flight				
	Entry procedure	Dedicated controls		Dedicated controls	Α
	Behaviour during big ears	Stable flight	Α	Stable flight	Α
	Recovery	Recovery through pilot action in less than a	В	Spontaneous in less than 3 s	Α
		further 3 s			
	Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
	Behaviour immediately after releasing the accelerator while	Stable flight	Α	Stable flight	Α
22. Behaviou	r exiting a steep spiral				
	Tendency to return to straight flight	Spontaneous exit	Α	Spontaneous exit	Α
	Turn angle to recover normal flight	Less than 720°, spontaneous recovery	Α	Less than 720°,spontaneous recovery	Α
	Sink rate when evaluating spiral stability [m/s]	14 m/s		18 m/s	
23. Alternativ	e means of directional control				
	180° turn achievable in 20 s	Yes		Yes	Α
	Stall or spin occurs	No	Α	No	Α
24. Any other	flight procedure and/or configuration described in the use				
	Procedure works as described	not available		not available	0
	Procedure suitable for novice pilots	not available	_	not available	0
	Cascade occurs	not available	0	not available	0
Comments of					
	Comments	no		no	



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