Flight test report

Classification B

Manufacturer Aerodyne Technologies Address 167 chemin de Verdun, Pas de l'echelle 74100 Etrembieres France Representive None Type of glider Joy L not available

Trimmer

Certification number Date of flight test Place of test

PG 099.2007 17/08/2007 Villeneuve



Test Pilot Claude Thurnheer Harness Sky Axel II M 44cm Total weight in flight 90 kg

Alain Zoller Sol Paragliders - Slider L 115 kg

		Min weight		Max weight	
1. Inflation/Ta	ke-off				
	Rising behaviour Special take off technique required			Smooth, easy and constant rising No	A A
2. Landing					
2. Creadined	Special landing technique required	No	A	No	A
3. Speed in st	Trim speed more than 30 km/h	Yes	А	Yes	А
	Speed range using the controls larger than 10 km/h			Yes	A
	Minimum speed	Less than 25 km/h	А	Less than 25 km/h	Α
4. Control mo					
	Max. weight in flight up to 80 kg Symmetric control pressure/travel	not available	0	not available	0
	Max. weight in flight 80 kg to 100 kg	not available	U		0
	Symmetric control pressure/travel	Increasing, Greater than 60 cm	А	not available	0
	Max. weight in flight greater than 100 kg				
5 Ditch otobi	Symmetric control pressure/travel	not available	0	Increasing, Greater than 65 cm	A
5. FILCH SLADI	lity exiting accelerated flight Dive forward angle on exit	Dive forward less than 30°	А	Dive forward less than 30°	А
	Collapse occurs			No	A
6. Pitch stabi	lity operating controls during accelerated flight				
7 Dell statim	Collapse occurs	No	Α	No	A
7. Roll stabili	ty and damping Oscillations	Reducing	А	Reducing	А
8. Stability in	gentle spirals				~
	Tendency to return to straight flight	Spontaneous exit	А	Spontaneous exit	А
9. Behaviour	in a steeply banked turn				_
10 Symmetri	Sink rate after two turns	More than 14 m/s	В	More than 14 m/s	В
ro. symmetri	c front collapse Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
	Recovery			Spontaneous in less than 3 s	A
	Dive forward angle on exit	Dive foward 0°to 30°, Keeping course	А	Dive foward 0°to 30°, Keeping course	Α
	Cascade occurs	No	A	No	A
	With accelerator Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
	Recovery		A	Spontaneous in less than 3 s	Â
	Dive forward angle on exit		A	Dive foward 0°to 30°, Keeping course	A
	Cascade occurs	No	А	No	Α
11. Exiting de	ep stall (parachutal stall) Deep stall achieved	Yes	А	Yes	А
	Recovery		Â	Spontaneous in less than 3 s	A
	Dive forward angle on exit	•	A	Dive forward 0°to 30°	A
	Change of course	0 0	А	Changing course less than 45°	Α
12 High angl	Cascade occurs	No	A	No	A
12. High angi	e of attack recovery Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
	Cascade occurs	•		No	A
13. Recovery	from a developed full stall				
	Dive forward angle on exit		A	Dive forward 0°to 30°	A
	Collapse Cascade occurs (other than collapse)	•		No collapse No	A A
	Rocking back		A	Less than 45°	A
	Line tension	Most line tight	А	Most line tight	А
14. Asymmet					
	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°	А	Less than 90°, Dive or roll angle 0° to 15°	А
	Re-inflation behaviour		A	Spontaneous re-inflation	A
	Total change of course	Less than 360°	А	Less than 360°	Α
	Collapse on the opposite side occurs			No	A
	Twist occurs Cascade occurs			No No	A A
	With 75% collapse-Maximum dive forward or roll angle				A
	Change of course until re-inflation	Less than 90°, Dive or roll angle 15° to 45°	А	Less than 90°, Dive or roll angle 0° to 15°	А
	Re-inflation behaviour	· · ·		Spontaneous re-inflation	Α
	Total change of course			Less than 360°	A
	Collapse on the opposite side occurs Twist occurs			No No	A A
	Cascade occurs			No	Â
	With 50% collapse and accelerator-Maximum dive forward o	r roll angle			
	Change of course until re-inflation			Less than 90°, Dive or roll angle 15° to 45°	A
	Re-inflation behaviour Total change of course	•		Spontaneous re-inflation Less than 360°	A A
	Collapse on the opposite side occurs			No	A

	Twist occurs	No	No A	Ą
	Cascade occurs	No	No A	A
	With 75% collapse and accelerator-Maximum dive forward of	r roll angle		
	Change of course until re-inflation	Less than 90°, Dive or roll angle 15° to 45°	Less than 90°, Dive or roll angle 15° to 45°	Ą
	Re-inflation behaviour	Spontaneous re-inflation		A
	Total change of course	Less than 360°	· · ·	A
	•	No /		A
	Collapse on the opposite side occurs			
	Twist occurs	No		A
	Cascade occurs	No	No A	Ą
15. Directiona	I control with a maintained asymmetric collapse			
	Able to keep course	Yes		Ą
	180° turn away from the collapsed side possible in 10 s	Yes	Yes /	Ą
	Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	More than 50 % of the symmetric control travel	Ą
16. Trim speed	d spin tendency			
	Spin occurs	No	No A	Ą
17. Low speed	spin tendency			
	Spin occurs	No	No	Ą
18. Recovery	from a developed spin			
•	Spin rotation angle after release	Stops spinning in less than 90°	Stops spinning in less than 90°	A
	Cascade occurs	No		Ą
19. B-line stal				
To: D Inte stan	Change of course before release	Change of course less than 45°	Change of course less than 45°	Ą
	Behaviour before release	Remains stable with straight span		A
	Recovery	Spontaneous in less than 3 s		A
	Dive forward angle on exit	Dive forward 0° to 30°		A
	Cascade occurs	No	No A	Ą
20. Big ears				
	Entry procedure	Dedicated controls		Ą
	Behaviour during big ears	Stable flight		Ą
	Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s	Ą
	Dive forward angle on exit	Dive forward 0° to 30°	Dive forward 0° to 30°	Ą
21. Big ears in	accelerated flight			
	Entry procedure	Dedicated controls	Dedicated controls	Ą
	Behaviour during big ears	Stable flight	Stable flight	Ą
	Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s	Ą
	Dive forward angle on exit	Dive forward 0° to 30°	Dive forward 0° to 30°	Ą
	Behaviour immediately after releasing the accelerator while	Stable flight		A
22 Rehaviour	exiting a steep spiral	otablo light		ċ
EE. Benavioai	Tendency to return to straight flight	Spontaneous exit	Spontaneous exit	Ą
	Turn angle to recover normal flight	Less than 720°, spontaneous recovery		A
	Sink rate when evaluating spiral stability [m/s]	18 m/s	20 m/s	<u>^</u>
		18 11/5	20 11/5	-
23. Alternative	e means of directional control	Ma a	No.	
	180° turn achievable in 20 s	Yes		A
	Stall or spin occurs	No	No A	Ą
24. Any other	flight procedure and/or configuration described in the us			
	Procedure works as described	not available	inot available	0
	Procedure suitable for novice pilots	not available	0 not available	0
	Cascade occurs	not available	0 not available	0
Comments of				
	Comments	no	no	



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