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## AIR TURQUOISE SA certified by





				Certification	7828
Manufacturer	Ozone Gliders	Certification number		PG_0708.2013	$\bigcirc$
Address	2, Queens Drive LA46LN . UK	Date of flight test		25. 04. 2013	
Representative	None	Place of test		Villeneuve	
Glider model	Spark 27	Classification		Α	
Trimmer	no				
	Test silet	Dupont Dhilippo		Thurnheer Claude	
	•	Dupont Philippe			
		Sup'Air - Evolution S		Gin Gliders - Geni III M	
A loofing the second second second	Total weight in flight (kg)			105	
1. Inflation/Take-off		A Smooth apply and constant riging	٨	Smooth apply and apply that right	^
Rising behaviour	e required	Smooth, easy and constant rising		Smooth, easy and constant rising	A
Special take off techniqu 2. Landing	e required	No A	A	No	A
Special landing technique	o required	A No	А	No	А
3. Speed in straight flig		A	A	NO	A
Trim speed more than 30		A Yes	А	Yes	А
•	ontrols larger than 10 km/h	Yes		Yes	A
Minimum speed		Less than 25 km/h	Δ	Less than 25 km/h	A
4. Control movement		A	~		А
Max. weight in flight up to	o 80 kg	A			
Symmetric control pressure / travel		Increasing / greater than 55 cm	А	not available	0
Max. weight in flight 80 kg to 100 kg					Ū
Symmetric control press	• •	not available	0	not available	0
Max. weight in flight greater than 100 kg			-		-
Symmetric control pressu		not available	0	Increasing / greater than 65 cm	А
5. Pitch stability exiting		Α			
Dive forward angle on exit		Dive forward less than 30°	А	Dive forward less than 30°	А
Collapse occurs		No	А	No	А
6. Pitch stability operat flight	ing controls during accelerated	Α			
Collapse occurs		No	А	No	А
7. Roll stability and dar	nping	Α			
Oscillations		Reducing	А	Reducing	А
8. Stability in gentle sp	irals	Α			
Tendency to return to str	aight flight	Spontaneous exit	А	Spontaneous exit	А
9. Behaviour in a steep	ly banked turn	Α			
Sink rate after two turns		12 m/s to 14 m/s	А	12 m/s to 14 m/s	А
10. Symmetric front col	llapse	Α			
Entry		Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery		Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	А
Dive forward angle on ex	kit / Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Keeping course	A
Cascade occurs		No	A	No	А
With accelerator					
Entry		Rocking back less than 45°	A	Rocking back less than 45°	А
Recovery		Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A

Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Keeping course	A
Cascade occurs	No	А	No	А
11. Exiting deep stall (parachutal stall)	Α			
Deep stall achieved	Yes	А	Yes	А
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
Change of course	Changing course less than $45^{\circ}$	А	Changing course less than 45°	А
Cascade occurs	No	А	No	А
12. High angle of attack recovery	Α			
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Cascade occurs	No	А	No	А
13. Recovery from a developed full stall	Α			
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
Collapse	No collapse	А	No collapse	А
Cascade occurs (other than collapses)	No	А	No	А
Rocking back	Less than 45°	А	Less than 45°	А
Line tension	Most lines tight	А	Most lines tight	А
14. Asymmetric collapse	А			
With 50% collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 0° to 15° $$	A	Less than 90° / Dive or roll angle 0° to 15° $$	A
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	No	А	No	А
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
With 75% collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle $15^{\circ}$ to $45^{\circ}$	A	Less than 90° / Dive or roll angle 15° to 45°	A
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	No	А	No	А
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
With 50% collapse and accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle $15^{\circ}$ to $45^{\circ}$	Α	Less than 90° / Dive or roll angle $15^{\circ}$ to $45^{\circ}$	A
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	No	А	No	А
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
With 75% collapse and accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle $15^{\circ}$ to $45^{\circ}$	A	Less than 90° / Dive or roll angle $15^{\circ}$ to $45^{\circ}$	A
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	No	А	No	А
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
15. Directional control with a maintained asymmetric	Α			
collapse				
Able to keep course	Yes	А	Yes	Α
180° turn away from the collapsed side possible in 10 s	Yes	А	Yes	Α
Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	A	More than 50 % of the symmetric control travel	A

16. Trim speed spin tendency	Α			
Spin occurs	No	А	No	А
17. Low speed spin tendency	Α			
Spin occurs	No	А	No	А
18. Recovery from a developed spin	Α			
Spin rotation angle after release	Stops spinning in less than 90°	А	Stops spinning in less than 90°	А
Cascade occurs	No	А	No	А
19. B-line stall	Α			
Change of course before release	Changing course less than 45°	А	Changing course less than 45°	А
Behaviour before release	Remains stable with straight span	A	Remains stable with straight span	А
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
Cascade occurs	No	А	No	А
20. Big ears	Α			
Entry procedure	Dedicated controls	А	Dedicated controls	А
Behaviour during big ears	Stable flight	А	Stable flight	А
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
21. Big ears in accelerated flight	А			
Entry procedure	Dedicated controls	А	Dedicated controls	А
Behaviour during big ears	Stable flight	А	Stable flight	А
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	A	Stable flight	А
22. Behaviour exiting a steep spiral	Α			
Tendency to return to straight flight	Spontaneous exit	А	Spontaneous exit	А
Turn angle to recover normal flight	Less than 720°, spontaneous recovery	A	Less than 720°, spontaneous recovery	А
Sink rate when evaluating spiral stability [m/s]	14		13	
23. Alternative means of directional control	А			
180° turn achievable in 20 s	Yes	А	Yes	А
Stall or spin occurs	No	А	No	А
24. Any other flight procedure and/or configuration described in the user's manual	0			
Procedure works as described	not available	0	not available	0
Procedure suitable for novice pilots	not available	0	not available	0
Cascade occurs	not available	0	not available	0
25. Comments of test pilot				
Comments				