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В

AIR TURQUOISE SA certified by

## Flight test report: EN



Manufacturer	Ozone Gliders	Certification number	PG_0640.2012
Address	2, Queens Drive LA46LN . UK	Date of flight test	23. 04. 2013
Representative	none	Place of test	Villleneuve

Classification

Trimmer no

**Buzz Z4 XS** 

Glider model

Test pilot	Fukuoka Seiko		Dupont Philippe
Harness	Sup air - XX-Lite		Sup air - Access S
Total weight in flight (kg)	58		70
1. Inflation/Take-off	Α		
Rising behaviour	Smooth, easy and constant rising	Α	Smooth, easy and constant rising
Special take off technique required	No /	Α	No
	_		

Special take off technique required	No	Α	No	Α
2. Landing	Α			
Special landing technique required	No	Α	No	Α
3. Speed in straight flight	Α			
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
Minimum speed	Less than 25 km/h	Α	Less than 25 km/h	Α
4. Control movement	Α			
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	not available	0	not available	0
Max. weight in flight greater than 100 kg				
Symmetric control pressure / travel	not available	0	not available	0
5. Pitch stability exiting accelerated flight	Α			
Dive forward angle on exit	Dive forward less than 30°	Α	Dive forward less than 30°	Α
Collapse occurs	No	Α	No	Α
Collapse occurs	110			
6. Pitch stability operating controls during accelerated flight	A			
6. Pitch stability operating controls during accelerated		A	No	Α
6. Pitch stability operating controls during accelerated flight	Α		No	Α
Pitch stability operating controls during accelerated flight     Collapse occurs	A No		No Reducing	A
Pitch stability operating controls during accelerated flight     Collapse occurs     Roll stability and damping	A No A	A		
6. Pitch stability operating controls during accelerated flight Collapse occurs 7. Roll stability and damping Oscillations	A No A Reducing	A		
6. Pitch stability operating controls during accelerated flight Collapse occurs 7. Roll stability and damping Oscillations 8. Stability in gentle spirals	A No A Reducing A	A	Reducing	Α
6. Pitch stability operating controls during accelerated flight  Collapse occurs  7. Roll stability and damping  Oscillations  8. Stability in gentle spirals  Tendency to return to straight flight	A No A Reducing A Spontaneous exit	A	Reducing  Spontaneous exit	Α
6. Pitch stability operating controls during accelerated flight  Collapse occurs  7. Roll stability and damping Oscillations  8. Stability in gentle spirals  Tendency to return to straight flight  9. Behaviour in a steeply banked turn	A  No A  Reducing A  Spontaneous exit B	A A A	Reducing Spontaneous exit	A
6. Pitch stability operating controls during accelerated flight Collapse occurs 7. Roll stability and damping Oscillations 8. Stability in gentle spirals Tendency to return to straight flight 9. Behaviour in a steeply banked turn Sink rate after two turns	A  No  A  Reducing  A  Spontaneous exit  B  Up to 12 m/s	A A A	Reducing Spontaneous exit	A
6. Pitch stability operating controls during accelerated flight  Collapse occurs  7. Roll stability and damping Oscillations  8. Stability in gentle spirals Tendency to return to straight flight  9. Behaviour in a steeply banked turn Sink rate after two turns  10. Symmetric front collapse	A  No A  Reducing A  Spontaneous exit B  Up to 12 m/s A	A A A	Reducing  Spontaneous exit  More than 14 m/s	A A B
6. Pitch stability operating controls during accelerated flight Collapse occurs 7. Roll stability and damping Oscillations 8. Stability in gentle spirals Tendency to return to straight flight 9. Behaviour in a steeply banked turn Sink rate after two turns 10. Symmetric front collapse Entry	A  No A  Reducing A  Spontaneous exit B  Up to 12 m/s A  Rocking back less than 45°	A A A	Reducing  Spontaneous exit  More than 14 m/s  Rocking back less than 45°	A A B
6. Pitch stability operating controls during accelerated flight  Collapse occurs  7. Roll stability and damping Oscillations  8. Stability in gentle spirals  Tendency to return to straight flight  9. Behaviour in a steeply banked turn  Sink rate after two turns  10. Symmetric front collapse  Entry  Recovery	A  No A Reducing A Spontaneous exit B Up to 12 m/s A Rocking back less than 45° Spontaneous in less than 3 s Dive forward 0° to 30° / Keeping	A A A	Reducing  Spontaneous exit  More than 14 m/s  Rocking back less than 45°  Spontaneous in less than 3 s  Dive forward 0° to 30° / Keeping	A A B
6. Pitch stability operating controls during accelerated flight  Collapse occurs  7. Roll stability and damping Oscillations  8. Stability in gentle spirals  Tendency to return to straight flight  9. Behaviour in a steeply banked turn Sink rate after two turns  10. Symmetric front collapse Entry Recovery Dive forward angle on exit / Change of course	A  No  A  Reducing  A  Spontaneous exit  B  Up to 12 m/s  A  Rocking back less than 45°  Spontaneous in less than 3 s  Dive forward 0° to 30° / Keeping course	A A A A A A	Reducing  Spontaneous exit  More than 14 m/s  Rocking back less than 45°  Spontaneous in less than 3 s  Dive forward 0° to 30° / Keeping course	A A B A A
6. Pitch stability operating controls during accelerated flight  Collapse occurs  7. Roll stability and damping Oscillations  8. Stability in gentle spirals Tendency to return to straight flight  9. Behaviour in a steeply banked turn Sink rate after two turns  10. Symmetric front collapse Entry Recovery Dive forward angle on exit / Change of course  Cascade occurs	A  No  A  Reducing  A  Spontaneous exit  B  Up to 12 m/s  A  Rocking back less than 45°  Spontaneous in less than 3 s  Dive forward 0° to 30° / Keeping course	A A A A A A	Reducing  Spontaneous exit  More than 14 m/s  Rocking back less than 45°  Spontaneous in less than 3 s  Dive forward 0° to 30° / Keeping course	A A B A A

Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	Α	Dive forward 0° to 30° / Keeping course	Α
Cascade occurs	No	Α	No	Α
11. Exiting deep stall (parachutal stall)	A			
Deep stall achieved	Yes	Α	Yes	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
Change of course	Changing course less than 45°	Α	Changing course less than 45°	Α
Cascade occurs	No	Α	No	Α
12. High angle of attack recovery	A			•
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	A	•		,,
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Collapse	No collapse	Α	No collapse	A
	No Collapse No	A	No Collapse No	
Cascade occurs (other than collapses)			Less than 45°	A
Rocking back	Less than 45°	A		A
Line tension	Most lines tight	Α	Most lines tight	Α
14. Asymmetric collapse	В			
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°	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	Α	No	Α
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
With 75% collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	90° to 180° / Dive or roll angle 15° to 45°	В	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
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° to 45°	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	Α	No No	Α
Twist occurs	No	Α	No	Α
Cascade occurs	No	A	No	A
	NO	٨	NO	^
With 75% collapse and accelerator	009 to 4009 / Diversionally and	_	Lasa than 00% / Divas annull annul	
Change of course until re-inflation / Maximum dive forward or roll angle	90° to 180° / Dive or roll angle 15° to 45°	В	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. Directional control with a maintained asymmetric collapse	Α			
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	Α	More than 50 % of the symmetric	Α
	symmetric control travel		control travel	

16. Trim speed spin tendency	Α			
Spin occurs	No	Α	No	Α
17. Low speed spin tendency	A			
Spin occurs	No	Α	No	Α
18. Recovery from a developed spin	Α			
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 stall	A			
Change of course before release	Changing course less than 45°	Α	Changing 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	Α			
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 in accelerated flight	A			
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
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	Α	Stable flight	Α
22. Behaviour exiting a steep spiral	Α			
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]	12		17	
23. Alternative means of directional control	A			
180° turn achievable in 20 s	Yes	Α	Yes	Α
Stall or spin occurs	No	Α	No	Α
24. Any other flight procedure and/or configuration described in the user's manual	A			
Procedure works as described	not available	0	Yes	Α
Procedure suitable for novice pilots	not available	0	Yes	Α
Cascade occurs	not available	0	No	Α
25. Comments of test pilot				
Comments				