

Air Turquoise SA Rte du Pré-au-Comte 8 | CH-1844 Villeneuve tel. +41 21 965 65 65 | mobile +41 79 202 52 30 info@para-test.com

Villeneuve

AIR TURQUOISE SA certified by

Flight test report: EN

Representative

ISO 9001
BUREAU VERITAS
Certification

Manufacturer	Ozone Gliders	Certification number	PG_0555.2012
Address	2, Queens Drive LA46LN . UK	Date of flight test	03. 05. 2012

Glider model Mojo 4 XS Classification A

Trimmer no

none

Test pilot	Fukuoka Seiko	Dupont Philippe
Harness	Sup'Air - Altiplume S	Sup' Air - Access M

Place of test

	Sup'Air - Altiplume S		Sup' Air - Access M	
Total weight in flight (kg)	60		70	
1. Inflation/Take-off	Α			
Rising behaviour	Smooth, easy and constant rising	Α	Smooth, easy and constant rising	Α
Special take off technique required	No	Α	No	Α
2. Landing	A			
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	A			
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	A			
Dive forward angle on exit	Dive forward less than 30°	Α	Dive forward less than 30°	Α
Collapse occurs	No	Α	No	Α
6. Pitch stability operating controls during accelerated flight	Α			
Collapse occurs	No	Α	No	Α
7. Roll stability and damping	A			
Oscillations	Reducing	Α	Reducing	Α
8. Stability in gentle spirals	A			
Tendency to return to straight flight	Spontaneous exit	Α	Spontaneous exit	Α
9. Behaviour in a steeply banked turn	A			
Sink rate after two turns	12 m/s to 14 m/s	Α	12 m/s to 14 m/s	Α
10. Symmetric front collapse	A			
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 / 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
With accelerator				
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 / Change of course	Dive forward 0° to 30° / Keeping course	Α	Dive forward 0° to 30° / Keeping course	Α
Deep stall achieved Yes A Yes A Possible stall and sizes than 3 s. A Spontaneous in less than 3 s. A Dive forward or 10 s.0° A Spontaneous in less than 3 s. A Spontaneous in less than 4 s. A Dive forward or 10 s.0° A Dive forward or 10 s.0° A Changing course less than 45° s. A Changing course less than 45° s. A Spontaneous in less than 3 s. A Spont	Cascade occurs	No	Α	No	Α
Recovery	11. Exiting deep stall (parachutal stall)	A			
Dive forward only en exist Dive forward 0° to 30° A Change of course Change of course A Change of course A No A A	Deep stall achieved	Yes	Α	Yes	Α
Dive forward only en exist Dive forward 0° to 30° A Change of course Change of course A Change of course A No A A	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Changing course less than 45° A Cascade occurs A Cascade occurs A No A No A No Recovery A Sportaneous in less than 3 s A Sportaneous in less than 3 s A No A Sportaneous in less than 3 s A No A No<	Dive forward angle on exit		Α		Α
Casende occurs No A No No A 12. High angle of attack recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A No Collapse A No No </td <td></td> <td>Changing course less than 45°</td> <td>Α</td> <td>Changing course less than 45°</td> <td>Α</td>		Changing course less than 45°	Α	Changing course less than 45°	Α
12 High angle of attack recovery					
Recovery					
Cascade occurs No A No A 13. Recovery from a developed full stall A Dive forward only on a developed full stall A A Dive forward 0" to 30" A No Collapse A No collapse A Collapse No No No A No collapse A Classing back Less than 45" A Less than 45" A Less than 45" A Line tension Most lines tight A Less than 45" A Less than 45" A Line tension A Most lines tight A Less than 50" A Less than 50" (blow or oil angle of course until re-inflation / Maximum dive forward of oil angle of course until re-inflation / Maximum dive forward of oil angle of course Less than 300" (blow or oil angle of course until re-inflation / Maximum dive forward of oil angle of course until re-inflation / Maximum dive forward of oil 15" to 15" A Less than 90" / Dive or roil angle of oil 15" to 45" A Less than 90" / Dive or roil angle of the proposite side occurs A No A No A No A No A No A No<			Α	Spontaneous in less than 3 s	Α
13. Recovery from a developed full stall Dive forward 0° to 30° A Dive forward 0° to 30° A Dive forward 0° to 30° A Cascade occurs (other than collapses) No No A No No No A No A Reside occurs (other than collapses) No No A No No A Reside occurs (other than collapses) No No A No A No A Reside occurs (other than collapses) A Less than 45° A Less than	•	·		•	
Dive forward angle on exit			,,		,,
Collapse			Δ	Dive forward 0° to 30°	Δ
Rocking back	The state of the s				
Rocking back Less than 45° A Most lines tight A Less than 90° / Dive or roll angle 0° A to 15° A to 15° A Total change of course until re-inflation / Maximum dive forward or lord lange or course until re-inflation / Maximum dive forward or lange or course until re-inflation / Maximum dive forward or lange of course until re-inflation / Maximum dive forward or lange of course until re-inflation / Maximum dive forward or lange of course until re-inflation / Maximum dive forward or lange of course until re-inflation / Maximum dive forward or lange of course until re-inflation / Maximum dive forward or lange of course until re-inflation / Maximum dive forward or lange of course until re-inflation / Maximum dive forward or lange of course until re-inflation / Maximum dive forward or lange of course until re-inflation / Maximum dive forward or lange of course until re-inflation / Maximum dive forward or roll angle of course until re-inflation / Maximum dive forward or roll angle of course until re-inflation / Maximum dive forward or roll angle of course until re-inflation / Maximum dive forward or roll angle of course until re-inflation / Maximum dive forward or roll angle of course until re-inflation / Maximum dive forward or roll angle of course until re-inflation / Maximum dive forward or roll angle of course until re-inflation / Maximum dive forward or roll angle of course until re-inflation / Maximum dive forward or roll angle of course until re-inflation / Maximum dive forward or roll angle of course until re-inflation / Maximum dive forward or roll angle of course until re-infla					
Line tension Most lines tight A Most lines tight A Most lines tight A 14. Asymmetric collapse A A A A A A A A A A A A A A A A Less than 90° / Dive or roll angle of to 15° or 1					
Multi-50% collapse Nulti-50% collapse Change of course until re-inflation / Maximum dive forward or roll angle of to 15° Spontaneous re-inflation A Spo					
With 50% collapse Auth 50% collapse Change of course until re-inflation / Maximum dive forward or langle of langle of course Less than 90° / Dive or roll angle to 15° A Less than 90° / Dive or roll angle to 15° A Spontaneous re-inflation A No A RUS Calcades occurs A No A No A RUS Calcades Cours A No A RUS Calcades Cours Calcades Cours A No A RUS Calcades Cours Calcades Cours Calcades Cours A No A RUS Calcades Cours Calcades Calcade		•	А	Most lines tight	А
Change of course until re-inflation / Maximum dive forward or for langle of roll angle of course Less than 90° / Dive or roll angle of to 15° A Less than 90° / Dive or roll angle of to 15° A less than 360° A less than 360	·	A			
roll angle Re-inflation behaviour Total change of course Less than 360° No A Collapse on the opposite side occurs No No A With 75% collapse Change of course until re-inflation / Maximum dive forward or roll angle on the opposite side occurs No Change of course until re-inflation / Maximum dive forward or roll angle of course No	,				
Total change of course Less than 360° A Less than 360° A No			Α		Α
Collapse on the opposite side occurs No No No A No No A No No A No No A No Collapse or the opposite side occurs No No A	Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
Twist occurs No A No A No A Cascade occurs No A No A No A With 75% collapse Change of course until re-inflation / Maximum dive forward or roll angle Less than 90° / Dive or roll angle 15° to 45° A Less than 90° / Dive or roll angle 15° to 45° A Re-inflation behaviour Spontaneous re-inflation A Spontaneous re-inflation A Collapse on the opposite side occurs No A No A With 50% collapse and accelerator No A No A Change of course until re-inflation / Maximum dive forward or roll angle of course until re-inflation / Maximum dive forward or roll angle of to 15° Less than 90° / Dive or roll angle of to 15° A Less than 90° / Dive or roll angle of to 15° A Less than 90° / Dive or roll angle of to 15° A Less than 90° / Dive or roll angle of to 15° A Less than 90° / Dive or roll angle of to 15° A Less than 90° / Dive or roll angle of to 15° A Less than 360° A Less than 360° A Less than 360° A Less than 90° / Dive or roll angle of 15° to 45° A No	Total change of course	Less than 360°	Α	Less than 360°	Α
Cascade occurs No A No A With 75% collapse Change of course until re-inflation / Maximum dive forward or lorl angle of ourse until re-inflation / Maximum dive forward or lorl angle of langle Less than 90° / Dive or roll angle of 15° to 45° A Less than 90° / Dive or roll angle 15° to 45° A Re-inflation behaviour Spontaneous re-inflation A Spontaneous re-inflation A Total change of course Less than 360° A No A Collapse on the opposite side occurs No A No A Twist occurs No A No A Cascade occurs No A No A With 50% collapse and accelerator Less than 90° / Dive or roll angle of course until re-inflation / Maximum dive forward or roll angle of course until re-inflation / Maximum dive forward or roll angle of course Less than 360° A Less than 90° / Dive or roll angle of to 15° A Re-inflation behaviour Spontaneous re-inflation A No A No Cascade occurs No A No No A With 75% collapse and accelerator Less than 360° A No No A Change of course until re-inflation / Maximum dive forward or roll angle or to 15° Less than 90° / Dive or roll angle of 15° to 45° <td< td=""><td>Collapse on the opposite side occurs</td><td>No</td><td>Α</td><td>No</td><td>Α</td></td<>	Collapse on the opposite side occurs	No	Α	No	Α
With 75% collapse Less than 90° / Dive or roll angle of course until re-inflation / Maximum dive forward or oll angle of course until re-inflation / Maximum dive forward or oll angle of to 45° Less than 90° / Dive or roll angle 15° to 45° A Less than 90° / Dive or roll angle 15° to 45° A A Re-inflation behaviour Spontaneous re-inflation A Spontaneous re-inflation A Collapse on the opposite side occurs No A No A Ciss cacade occurs No A No A Cascade occurs No A No A With 50% collapse and accelerator 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 A Spontaneous re-inflation A Total change of course Less than 360° A Less than 360° A Collapse on the opposite side occurs No A No A Change of course until re-inflation / Maximum dive forward or roll angle of course until re-inflation / Maximum dive forward or roll angle of to 15° A Less than 90° / Dive or roll angle of to 15° to 45° A	Twist occurs	No	Α	No	Α
Change of course until re-inflation / Maximum dive forward or roll angle Less than 90° / Dive or roll angle no' to 15° A Less than 90° / Dive or roll angle 15° to 45° A Re-inflation behaviour Spontaneous re-inflation A Spontaneous re-inflation A Total change of course Less than 360° A Less than 360° A Collapse on the opposite side occurs No A No A Twist occurs No A No A Cascade occurs No A No A With 50% collapse and accelerator Less than 90° / Dive or roll angle 0° to 15° A Less than 90° / Dive or roll angle 0° to 15° A Less than 90° / Dive or roll angle 0° to 15° A Less than 90° / Dive or roll angle 0° to 15° A Less than 90° / Dive or roll angle 0° to 15° A Less than 360° A Less than 360° A Less than 360° A Less than 360° A No A A A Calagas on the opposite side occurs A No A No A A No A A A A A A A A A A A A<	Cascade occurs	No	Α	No	Α
roll angle Re-inflation behaviour Spontaneous re-inflation A No Cascade occurs No No A No A No Cascade occurs Less than 90° / Dive or roll angle O * to 15° Re-inflation behaviour Collapse and accelerator Collapse or course until re-inflation / Maximum dive forward or roll angle O * to 15° Re-inflation behaviour Re-inflation behaviour Re-inflation behaviour Re-inflation behaviour Rouse	With 75% collapse				
Total change of course Less than 360° A Less than 360° A No			Α	Less than 90° / Dive or roll angle 15° to 45°	Α
Collapse on the opposite side occurs No No A No A No No A No A No Cascade occurs No No A	Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
Collapse on the opposite side occurs No No A No A No No A No A No Cascade occurs No No A	Total change of course	Less than 360°	Α	Less than 360°	Α
Twist occurs No No No A No No A No No A No No	-	No	Α	No	Α
Cascade occurs With 50% collapse and accelerator Change of course until re-inflation / Maximum dive forward or roll angle 0° to 15° Re-inflation behaviour Total change of course No No No A Less than 90° / Dive or roll angle A Less than 360° A Less than 360° A Less than 360° A Less than 360° A No No No No No A With 75% collapse and accelerator Change of course Until re-inflation behaviour Change of course Less than 360° No No A No Cascade occurs No No A With 75% collapse and accelerator Change of course until re-inflation / Maximum dive forward or roll angle 0° to 15° Spontaneous re-inflation A 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 Less than 90° / Dive or roll angle 0° to 15° A Less than 90° / Dive or roll angle 0° to 15° A Less than 90° / Dive or roll angle 0° to 15° A Less than 90° / Dive or roll angle 0° to 15° A Less than 90° / Dive or roll angle 0° to 15° A Less than 90° / Dive or roll angle 0° to 15° A Less than 90° / Dive or roll angle 0° to 15° A Less than 90° / Dive or roll angle 0° to 15° 15° to 45° A Less than 90° / Dive or roll angle 0° to 15° 15° to 45° A Less than 90° / Dive or roll angle 0° to 15° A Less than 90° / Dive or roll angle 0° to 15° 15° to 45° A No A Less than 90° / Dive or roll angle 15° to 45° A Less than 90° / Dive or roll angle 0° to 15° 15° to 45° A Less than 90° / Dive or roll angle 15° to 45° A Less than 90° / Dive or roll angle 0° to 15° 15° to 45° A Less than 90° / Dive or roll angle 15° to 45° A Less than 90° / Dive or roll angle 0° to 15° 15° to 45° A Less than 90° / Dive or roll angle 15° to 45° A Less than 90° / Dive or roll angle 15° to 45° A Less than 90° / Dive or roll angle 15° to 45° A Less than 90° / Dive or roll angle 15° to 45° A No A		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 0° to 15° A Less than 90° / Dive or roll angle 0° to 15° A Re-inflation behaviour Spontaneous re-inflation A Spontaneous re-inflation A Total change of course Less than 360° A Less than 360° A Collapse on the opposite side occurs No A No No A Twist occurs No A No No A Cascade occurs No A No No A With 75% collapse and accelerator Less than 90° / Dive or roll angle 0° to 15° A Less than 90° / Dive or roll angle 15° to 45° A Re-inflation behaviour Spontaneous re-inflation A Spontaneous re-inflation A Re-inflation behaviour Spontaneous re-inflation A Spontaneous re-inflation A Total change of course Less than 360° A Less than 90° / Dive or roll angle 15° to 45° A Collapse on the opposite side occurs No A No Less than 360° A Cascade occurs No A No No A 15. Directional control with a maintained asym			Α		
Change of course until re-inflation / Maximum dive forward or roll angle 0° to 15°			, ,		,,
Re-inflation behaviour Total change of course Less than 360° A Less than 360° A Less than 360° A Less than 360° A Collapse on the opposite side occurs No No A No Cascade occurs No No A No A No Cascade occurs No Change of course until re-inflation / Maximum dive forward or roll angle of to 15° to 45° Re-inflation behaviour Total change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Spontaneous re-inflation A Less than 90° / Dive or roll angle 15° to 45° Re-inflation behaviour Spontaneous re-inflation A Spontaneous re-inflation A Collapse on the opposite side occurs No No A No	Change of course until re-inflation / Maximum dive forward or		Α		Α
Total change of course Collapse on the opposite side occurs No No A Less than 360° A Less than 360° A Collapse on the opposite side occurs No No A No A No A Twist occurs No No A With 75% collapse and accelerator Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Spontaneous re-inflation A Collapse on the opposite side occurs No A Less than 90° / Dive or roll angle A Less than 90° / Dive or roll angle A Less than 90° / Dive or roll angle A Less than 90° / Dive or roll angle A Less than 360° A Less than 90° / Dive or roll angle	-		Δ		Δ
Collapse on the opposite side occurs No No A No A No Cascade occurs No No A No A No A No A No A Cascade occurs No No A		·		·	
Twist occurs No No A No No A Total change of course Collapse on the opposite side occurs No No A No A Twist occurs No No A Cascade occurs No No A No A No A Total change of course Collapse on the opposite side occurs No A Twist occurs No A Cascade occurs No A No No	G				
Cascade occurs With 75% collapse and accelerator Change of course until re-inflation / Maximum dive forward or roll angle of to 15° Re-inflation behaviour Total change of course Collapse on the opposite side occurs No No A No A Less than 90° / Dive or roll angle of 15° to 45° Spontaneous re-inflation A Spontaneous re-inflation A Collapse on the opposite side occurs No A Twist occurs No A Cascade occurs No A Cascade occurs No A Total change of course No A No A No A Total change of course No A No A No A Total change of course No A No A No A No A Total change of course No A No A No A No A Total change of course No A No A No A No A Total change of course No A No A No A No A Total change of course No A No A No A No A Total change of course No A No A No A No A Total change of course No A No A No A No A No A No A Total change of course No A No No					
With 75% collapse and accelerator Change of course until re-inflation / Maximum dive forward or roll angle 0° to 15° Re-inflation behaviour Spontaneous re-inflation A Spontaneous re-inflation A Spontaneous re-inflation A Collapse on the opposite side occurs No No A No A No Cascade occurs No A No A No Total change of course Collapse on the opposite side occurs No A No Total change of course No A No Total change of course A No Total change of course A Yes A No A					
Change of course until re-inflation / Maximum dive forward or roll angle nor to 15°		140	^	NO	^
roll angle 0° to 15° 15° to 45° Re-inflation behaviour Spontaneous re-inflation A Spontaneous re-inflation A Collapse of course Less than 360° A Less than 360° A Collapse on the opposite side occurs No A No A Twist occurs No A No A No A Cascade occurs No A No A No A Cascade occurs No A No	•	Lasa than 200 / Division and I ample		Land the cook / Divergence II are also	
Total change of course Collapse on the opposite side occurs No No A No A No A No Cascade occurs No No A No A No A Tist occurs No No A No A No A No A Total change of course No A No A No A No A No A Twist occurs No A No A No A Total change of course No A No A No A No A Twist occurs No A No A No A No A Total change of course No A No A No A No A No A No A Total change of course No A No No			А		А
Collapse on the opposite side occurs No A No A No A No A No A No A Cascade occurs No A No A No A No A Tis. Directional control with a maintained asymmetric collapse A A No A A No A No A No A No A No A N	Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
Twist occurs No A No	Total change of course	Less than 360°	Α	Less than 360°	Α
Cascade occurs No A No A No A No A No A No A 15. Directional control with a maintained asymmetric collapse Able to keep course Yes A 180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin More than 50 % of the A More than 50 % of the symmetric A	Collapse on the opposite side occurs	No	Α	No	Α
A Superscription of the collapsed side possible in 10 s A Superscription of control range between turn and stall or spin A A A A A A A A A A A A A A A A A A A	Twist occurs	No	Α	No	Α
collapse Able to keep course Yes A Yes A 180° turn away from the collapsed side possible in 10 s Yes A Yes A Yes A More than 50 % of the symmetric A More than 50 % of the symmetric	Cascade occurs	No	Α	No	Α
180° turn away from the collapsed side possible in 10 s Yes A Yes A More than 50 % of the symmetric A More than 50 % of the symmetric		Α			
Amount of control range between turn and stall or spin More than 50 % of the A More than 50 % of the symmetric A	Able to keep course	Yes	Α	Yes	Α
	180° turn away from the collapsed side possible in 10 s	Yes	Α	Yes	Α
symmetric control travel control travel	Amount of control range between turn and stall or spin		Α		Α
		symmetric control travel		control travel	

16. Trim speed spin tendency	A			
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]	15		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	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				