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

AIR TURQUOISE SA certified by

Flight test report: EN



Manufacturer	Ozone Gliders	Certification number	PG_0407.2011
Address	2, Queens Drive LA46LN . UK	Date of flight test	03. 02. 2011
Representative	Ogden Russell	Place of test	Villeneuve
Glider model	Speedster 26	Classification	С
Trimmer	yes: closed		

Test pilot	Thurnheer Claude		Zoller Alain	
•	Sup' Air - Altiplume S		Sup'Air - Evo XC L	
Total weight in flight (kg)	·		110	
1. Inflation/Take-off	A		110	
Rising behaviour	Smooth, easy and constant rising	Δ	Smooth, easy and constant rising	Α
Special take off technique required	No	Α	No	A
2. Landing	A		NO	
Special landing technique required	No	Α	No	Α
3. Speed in straight flight	В	, ·		, ,
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	25 km/h to 30 km/h	В	Less than 25 km/h	Α
4. Control movement	A		2000 81011 20 1011/11	, ,
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		·		·
Symmetric control pressure / travel	Increasing / greater than 60 cm	Α	not available	0
Max. weight in flight greater than 100 kg	g. g. co.c. men co c			-
Symmetric control pressure / travel	not available	0	Increasing / greater than 65 cm	Α
5. Pitch stability exiting accelerated flight	A		3 3 1111	
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	Α			
Tendency to return to straight flight	Spontaneous exit	Α	Spontaneous exit	Α
9. Behaviour in a steeply banked turn	В			
Sink rate after two turns	More than 14 m/s	В	More than 14 m/s	В
10. Symmetric front collapse	Α			
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

No	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 Recovery Spontaneous in less than 3 s. A A Spontaneous in less than 3 s. A A Dive forward or goll or exit Dive forward or 10 s0° A Dive forward 0° to 30° A Change of course No A No A Changing course less than 45° A No	Cascade occurs	No	Α	No	Α
Recovery Spontaneous in less than 3 s A Dive forward 0" to 30" A Dive forward 0" to 50" A	11. Exiting deep stall (parachutal stall)	A			
Dive floward angle on exit Dive floward of "to 30" A Dive floward of "to 30" A Change of course Changing course less than 45" A No A No A Cascade occurs No A No A No A 12. High angle of attack recovery So pontaneous in 3 s to 5 s C So pontaneous in less than 3 s A Recovery Spontaneous in 3 s to 5 s C So pontaneous in less than 3 s A 13. Recovery from a developed full stall A No A No collapse A Collapse No A No collapse A No collapse A Collapse C Less than 45" A No A R Collapse of Cascade occurs (other than collapses) C Less than 45" A No A R Less than 45" A No A Less than 45" A Less than 45" A Less than 36" A Less than 36" A Less than 36" A Less than 36" A	Deep stall achieved	Yes	Α	Yes	Α
Dive floward angle on exit Dive floward of "to 30" A Dive floward of "to 30" A Change of course Changing course less than 45" A No A No A Cascade occurs No A No A No A 12. High angle of attack recovery So pontaneous in 3 s to 5 s C So pontaneous in less than 3 s A Recovery Spontaneous in 3 s to 5 s C So pontaneous in less than 3 s A 13. Recovery from a developed full stall A No A No collapse A Collapse No A No collapse A No collapse A Collapse C Less than 45" A No A R Collapse of Cascade occurs (other than collapses) C Less than 45" A No A R Less than 45" A No A Less than 45" A Less than 45" A Less than 36" A Less than 36" A Less than 36" A Less than 36" A	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Change of course Changing course less than 45" or A No	Dive forward angle on exit		Α		Α
Caseade occurs No A No A 12. High angle of attack recovery C C C To To To C A <		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 12. Dive forward angle on exit Dive forward 0" to 30" A Dive forward 0" to 30" A Dive forward 0" to 30" A Collapse No collapse A No collapse A Cascade occurs (other than collapses) No Collapse A No collapse A Coking back Less than 46" A Less than 46" A Less than 46" A Line tension Mo Most lines tight A Less than 90" / Dive or roll angle 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 15" to 45" A Less than 90" / Dive or roll angle of 15" to 45" A Less than 90" / Dive or roll angle of 15" to 45" A No A		Spontaneous in 3 s to 5 s	С	Spontaneous in less than 3 s	Α
13. Recovery from a developed full stall Dive forward on 10 30" A Dive forward on 10 30" A Dive forward on 10 30" A Recovery from a developed with any state of the property	•	'		•	
Dive forward angle on exit			- `		,,
Collapse Course (other than collapses) No collapse A Line tension A No Most lines tight A Line tension A Line tension A Most lines tight A Line tension A Line tension A Line tension A So Mark lines tight A Line tension A Lin			Δ	Dive forward 0° to 30°	Δ
Cascade occurs (other than collapses) No A Less than 45° A Less than 45° A Rocking back Less than 45° A Less than 45° A Less than 45° A 14. Asymmetric collapse Cw/lh 50% collapse Change of course until re-inflation / Maximum dive forward or roll angle 15° to 45° Less than 90° / Dive or roll angle 15° to 45° A Less than 90° / Dive or roll angle 10° to 15° A Re-inflation behaviour Spontaneous re-inflation A Spontaneous re-inflation A Collapse on the opposite side occurs No A No A No A Cascade occurs No A No A No A Cascade occurs No A No A No A Change of course until re-inflation / Maximum dive forward or lange 145° to 60° On A No A <td>The state of the s</td> <td></td> <td></td> <td></td> <td></td>	The state of the s				
Rocking back Less than 45° A Less than 45° A Line tension Most lines tight A Most lines tight A Line tension Most lines tight A Most lines tight A L4. Asymetric collapse C C With 50% collapse Less than 90° / Dive or roll angle of course until re-inflation / Inflation / Inflation / Inflation behaviour Less than 360° A Less than 360° A Donate our se-inflation A No A Total change of course or the opposite side occurs A No A A Total change of course on the opposite side occurs No A No A No A Total change of course on the opposite side occurs No A No A No A Total change of course until re-inflation / Maximum dive forward or loll angle of course until re-inflation / Maximum dive forward or loll angle of course A No A No A Total change of course until re-inflation / Maximum dive forward or loll angle of course A No A No A Total change of course until re-inflation / Maximum dive forward or lange of course until re-inflation / Maximum dive					
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Change of course until re-inflation / Maximum dive forward or loll angle in lot langle Less than 90° / Dive or roll angle in 15° to 45° A building to 10° 10° 10° 10° 10° 10° 10° 10° 10° 10°	•	C			
15" to 45" 15" to 45" 15" to 15" 15"	•				
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Twist occurs No A No A Cascade occurs No A No A With 75% collapse Change of course until re-inflation / Maximum dive forward or oll angle 90° to 180° / Dive or roll angle C 90° to 180° / Dive or roll angle 45° to 60° C 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 Collapse on the opposite side occurs No A No A Cascade occurs No A No A Cascade occurs No A No A Cascade occurs No A No A Change of course until re-inflation / Maximum dive forward or all angle of course until re-inflation / Maximum dive forward or all angle of course A Less than 360° A Less than 360° A Re-inflation behaviour No A No A No A<	Total change of course	Less than 360°	Α	Less than 360°	Α
Cascade occurs With 75% collapse Change of course until re-inflation / Maximum dive forward or loil angle of 50° to 180° / Dive or roll angle 45° to 60° Re-inflation behaviour Spontaneous re-inflation A Spontaneous re-inflation A Spontaneous re-inflation A No Collapse on the opposite side occurs No No No A No Cascade occurs No No Cascade occurs No No Cascade occurs No With 50% collapse and accelerator Change of course Less than 90° / Dive or roll angle 15° to 45° Re-inflation behaviour Spontaneous re-inflation A No Cascade occurs No No A No Cascade occurs No No Change of course until re-inflation / Maximum dive forward or 10ll angle 15° to 45° Re-inflation behaviour Spontaneous re-inflation A Less than 90° / Dive or roll angle 15° to 45° Re-inflation behaviour Spontaneous re-inflation A Less than 90° / Dive or roll angle 15° to 45° Re-inflation behaviour No No No A No Cascade occurs Change of course until re-inflation / Maximum dive forward or roll angle 20° to 180° / Dive or roll angle 20° to 180° / Dive or roll angle 30° to 180° / Dive or roll angle 45° to 60° to 90° to 180° / Dive or roll angle 30° to 90° to 180° / Dive or roll angle 30° to 90° to 180° / Dive or roll angle 30° to 90° to 180° / Dive or roll angle 30° to 90° to 180° / Dive or roll angle 30° to 90° to 180° / Dive or roll angle 30° to 90° to 180° / Dive or roll angle 30° to 90° to 180° / Dive or roll 30° / Dive 30° /	Collapse on the opposite side occurs	No	Α	No	Α
With 75% collapse Solution 180° / Dive or roll angle Case of 60° Solution 180° / Dive or roll angle Solution 180° / Dive or roll angle A collapse or roll angle A collapse on the opposite side occurs No A collapse on the opposite side occurs No A No A No A Collapse on the opposite side occurs No A No A No A Collapse on the opposite side occurs No A No A No A Collapse on the opposite side occurs A No A No A No A No A Solution of the opposite occurs A No A No A No A No A No A Solution occurs A No A No <th< td=""><td>Twist occurs</td><td>No</td><td>Α</td><td>No</td><td>Α</td></th<>	Twist occurs	No	Α	No	Α
Change of course until re-inflation / Maximum dive forward or roll angle 45° to 60° and 60° how for a 180° / Dive or roll angle 45° to 60° and	Cascade occurs	No	Α	No	Α
roll angle 45° to 60° to 60° 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 of course until re-inflation / Maximum dive forward or 15° to 45° Less than 90° / Dive or roll angle 15° to 45° A Less than 90° / Dive or roll angle 15° to 45° A Spontaneous re-inflation A Re-inflation behaviour Less than 360° A Less than 360° A Re-inflation behaviour No A No A Twist occurs No A No A Cascade occurs No A No A With 75% collapse and accelerator C 90° to 180° / Dive or roll angle 60° to 90° to	With 75% collapse				
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Collapse on the opposite side occurs No	Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
Collapse on the opposite side occurs No	Total change of course	Less than 360°	Α	Less than 360°	Α
Twist occurs No No A No	-	No	Α	No	Α
Cascade occurs With 50% collapse and accelerator Change of course until re-inflation / Maximum dive forward or roll angle 15° to 45° Re-inflation behaviour Total change of course Collapse on the opposite side occurs Change of course Collapse on the opposite side occurs Change of course Collapse on the opposite side occurs Change of course Change of course Collapse on the opposite side occurs No No No No No No No No No N		No	Α	No	Α
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Collapse on the opposite side occurs No No No A No No A No No A No Cascade occurs No No A No A No No A No Cascade occurs No No No A No		•		•	
Twist occurs No Cascade occurs No	-				
Cascade occurs With 75% collapse and accelerator Change of course until re-inflation / Maximum dive forward or roll angle 45° to 60° Re-inflation behaviour Total change of course Collapse on the opposite side occurs No No No No No No No No No N					
With 75% collapse and accelerator Change 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 or langle of course or roll angle or rol					
Change 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 of to 90° to 180° / Dive or roll angle 60° course of to 90° course o		140	^	NO	^
roll angle 45° to 60° to 90° 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 No A Cascade occurs No A No A No A Cascade occurs A No A No A No A Cascade occurs A No A N	•	00° to 190° / Divo or roll angle	_	00° to 190° / Dive or roll angle 60°	_
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Collapse on the opposite side occurs No A No A No A No A Cascade occurs No A No A No A No A Twist occurs No A No	Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
Twist occurs No A No A No A 15. Directional control with a maintained asymmetric collapse	Total change of course	Less than 360°	Α	Less than 360°	Α
Cascade occurs No A No A 15. Directional control with a maintained asymmetric collapse	Collapse on the opposite side occurs	No	Α	No	Α
15. Directional control with a maintained asymmetric A collapse	Twist occurs	No	Α	No	Α
collapse	Cascade occurs	No	Α	No	Α
Able to keep course Yes A Yes A		Α			
	Able to keep course	Yes	Α	Yes	Α
180° turn away from the collapsed side possible in 10 s Yes A Yes A	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 A More than 50 % of the symmetric A	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		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	С			
Entry procedure	Dedicated controls	Α	Dedicated controls	Α
Behaviour during big ears	Unstable flight	С	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]	16		19	
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	Yes	Α	Yes	Α
Procedure suitable for novice pilots	Yes	Α	Yes	Α
Cascade occurs	No	Α	No	Α
25. Comments of test pilot				
Comments				