## para-test.com

## AIR TURQUOISE SA certified by





					1828
Manufacturer	Ozone Gliders	Certification number		PG_0528.2012	
Address	2, Queens Drive LA46LN . UK	Date of flight test		26. 01. 2012	
Bonrocontativo		Place of test		Villeneuve	
Representative	Ogden Russel			_	
Glider model	LM4 MS	Classification		D	
Trimmer	no				
	Test nik	ot Thurnheer Claude		Zoller Alain	
	•	s Sup'Air - Altiplume L		Sup'Air - Altiplume L	
				· ·	
	Total weight in flight (ko			95	
1. Inflation/Take-off		C	_		
Rising behaviour		Overshoots, shall be slowed down to avoid a front collapse	С	Overshoots, shall be slowed down to avoid a front collapse	С
Special take off technique	ue required	No	Α	No	А
2. Landing		Α			
Special landing technique	ue required	No	А	No	А
3. Speed in straight flight	ght	В			
Trim speed more than 3	0 km/h	Yes	А	Yes	А
Speed range using the	controls larger than 10 km/h	Yes	А	Yes	А
Minimum speed		25 km/h to 30 km/h	В	25 km/h to 30 km/h	В
4. Control movement		С			
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 / 45 cm to 60 cm	С	Increasing / 45 cm to 60 cm	С
Max. weight in flight greater than 100 kg					
Symmetric control pressure / travel		not available	0	not available	0
5. Pitch stability exitin	g accelerated flight	Α			
Dive forward angle on e	xit	Dive forward less than 30°	А	Dive forward less than 30°	А
Collapse occurs		No	Α	No	А
6. Pitch stability opera flight	ting controls during accelerated	Α			
Collapse occurs		No	А	No	А
7. Roll stability and da	mping	Α			
Oscillations		Reducing	Α	Reducing	А
8. Stability in gentle sp	birals	Α			
Tendency to return to st	raight flight	Spontaneous exit	А	Spontaneous exit	А
9. Behaviour in a steep	oly banked turn	В			
Sink rate after two turns		More than 14 m/s	В	More than 14 m/s	В
10. Symmetric front co	ollapse	D			
Entry		Rocking back less than $45^{\circ}$	Α	Rocking back less than 45°	А
Recovery		Spontaneous in 3 s to 5 s	В	Recovery through pilot action in less than a further 3 s	D
Dive forward angle on exit / Change of course		Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Keeping course	А
Cascade occurs		No	А	No	А
With accelerator					
Entry		Rocking back greater than 45°	С	Rocking back greater than $45^\circ$	С

Recovery Recovery through piles than a further 3		D
Dive forward angle on exit / Change of course Dive forward 0° to 30 course	° / Keeping A Dive forward 0° to 30° / Keeping course	A
Cascade occurs No	A No	А
11. Exiting deep stall (parachutal stall) A		
Deep stall achieved Yes	A Yes	А
Recovery Spontaneous in less	than 3 s A Spontaneous in less than 3 s	А
Dive forward angle on exit Dive forward 0° to 30	° A Dive forward 0° to 30°	А
Change of course Changing course less	s than 45° A Changing course less than 45°	А
Cascade occurs No	A No	А
12. High angle of attack recovery A		
Recovery Spontaneous in less	than 3 s A Spontaneous in less than 3 s	А
Cascade occurs No	A No	А
13. Recovery from a developed full stall B		
Dive forward angle on exit Dive forward 0° to 30	° A Dive forward 30° to 60°	В
Collapse No collapse	A No collapse	А
Cascade occurs (other than collapses) No	A No	А
Rocking back Less than 45°	A Less than 45°	А
Line tension Most lines tight	A Most lines tight	А
14. Asymmetric collapse D		
With 50% collapse		
Change of course until re-inflation / Maximum dive forward or Less than 90° / Dive 15° to 45°	or roll angle A Less than 90° / Dive or roll angle $15^{\circ}$ to $45^{\circ}$	А
Re-inflation behaviour Spontaneous re-infla	tion A Spontaneous re-inflation	А
Total change of course Less than 360°	A Less than 360°	А
Collapse on the opposite side occurs No	A No	А
Twist occurs No	A No	А
Cascade occurs No	A No	А
With 75% collapse		
Change of course until re-inflation / Maximum dive forward or 180° to 360° / Dive o 45° to 60°	r roll angle C 90° to 180° / Dive or roll angle 45° to 60°	С
Re-inflation behaviour Spontaneous re-infla	tion A Spontaneous re-inflation	А
Total change of course Less than 360°	A Less than 360°	А
Collapse on the opposite side occurs No	A Yes, no turn reversal	С
Twist occurs No	A No	А
Cascade occurs No	A No	А
With 50% collapse and accelerator		
Change of course until re-inflation / Maximum dive forward or the test than 90° / Dive roll angle $15^\circ$ to $45^\circ$	or roll angle A 90° to 180° / Dive or roll angle 15° to 45°	В
Re-inflation behaviour Spontaneous re-infla	tion A Spontaneous re-inflation	А
Total change of course Less than 360°	A Less than 360°	А
Collapse on the opposite side occurs No	A No	А
Twist occurs No	A No	А
Cascade occurs No	A No	А
With 75% collapse and accelerator		
Change of course until re-inflation / Maximum dive forward or 180° to 360° / Dive o 60° to 90°	r roll angle D 90° to 180° / Dive or roll angle 60° to 90°	С
Re-inflation behaviour Spontaneous re-infla	tion A Spontaneous re-inflation	А
Total change of course Less than 360°	A Less than 360°	А
Collapse on the opposite side occurs Yes, no turn reversal	C Yes, no turn reversal	С
Twist occurs No	A No	А
Cascade occurs No	A No	А
15. Directional control with a maintained asymmetric A collapse		
Able to keep course Yes	A Yes	А
180° turn away from the collapsed side possible in 10 s Yes	A Yes	А
Amount of control range between turn and stall or spin More than 50 % of the		А
symmetric control tra	vel control travel	

16. Trim speed spin tendency	Α			
Spin occurs	No	А	No	А
17. Low speed spin tendency	D			
Spin occurs	No	А	Yes	D
18. Recovery from a developed spin	А			
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	С			
Change of course before release	Changing course less than 45°	А	Changing course more than 45°	С
Behaviour before release	Remains stable without straight span	С	Remains stable without straight span	С
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	В			
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	A	Recovery through pilot action in less than a further 3 s	В
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
21. Big ears in accelerated flight	В			
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	A	Recovery through pilot action in less than a further 3 s	В
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]	17		24	
23. Alternative means of directional control	Α			
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				