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AIR TURQUOISE SA certified by





				osturcation	-T- 7828
Manufacturer	Ozone Gliders	Certification number		PG_0778.2013	\smile
Address	2, Queens Drive LA46LN . UK	Date of flight test		 17. 06. 2014	
Representative	None	Place of test		Villeneuve	
Glider model	Mantra M6 S	Classification		D	
Trimmer	no				
	Test	ilet Dunant Dhilinna		ThumbeerCloude	
	•	bilot Dupont Philippe		Thurnheer Claude	
		ess Sky Paragliders - Reven	se 2 S	•	
	Total weight in flight			85	
1. Inflation/Take-off		С			
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 technic	ue required	No	А	No	А
2. Landing		A			
Special landing technique required		No	A	No	А
3. Speed in straight flight		В			
Trim speed more than 30 km/h		Yes	А	Yes	А
Speed range using the controls larger than 10 km/h		Yes	А	Yes	А
Minimum speed		Less than 25 km/h	A	25 km/h to 30 km/h	В
4. Control movement		С			
Max. weight in flight up	to 80 kg				
Symmetric control pres		Increasing / 40 cm to 55 cm	С	not available	0
Max. weight in flight 80 kg to 100 kg					_
Symmetric control pressure / travel		not available	0	Increasing / 45 cm to 60 cm	С
Max. weight in flight gre					
Symmetric control pres		not available	0	not available	0
5. Pitch stability exitin		A			
Dive forward angle on exit		Dive forward less than 30°	A	Dive forward less than 30°	A
Collapse occurs 6. Pitch stability operating controls during accelerated		No	A	No	A
flight	aling controls during accelerated				
Collapse occurs		No	A	No	A
7. Roll stability and damping		Α			

110		NO	~
Α			
Reducing	А	Reducing	А
Α			
Spontaneous exit	А	Spontaneous exit	Α
В			
More than 14 m/s	В	More than 14 m/s	В
D			
Rocking back less than 45°	А	Rocking back less than 45°	Α
Recovery through pilot action in less than a further 3 s	D	Recovery through pilot action in less than a further 3 s	D
Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Keeping course	А
No	А	No	Α
Rocking back less than 45°	А	Rocking back less than 45°	А
	A Reducing A Spontaneous exit B More than 14 m/s D Rocking back less than 45° Recovery through pilot action in less than a further 3 s Dive forward 0° to 30° / Keeping course No	AReducingAAASpontaneous exitABMore than 14 m/sBDRocking back less than 45°ARecovery through pilot action in less than a further 3 sDDive forward 0° to 30° / Keeping courseANoA	AReducingAReducingASpontaneous exitASpontaneous exitBASpontaneous exitBMore than 14 m/sBMore than 14 m/sDFFRocking back less than 45°ARocking back less than 45°Recovery through pilot action in less than a further 3 sDDive forward 0° to 30° / Keeping courseADive forward 0° to 30° / Keeping courseNoANo

Recovery	Recovery through pilot action in	D	Spontaneous in 3 s to 5 s	В
Dive forward angle on exit / Change of course	less than a further 3 s Dive forward 0° to 30° / Keeping	А	Dive forward 0° to 30° / Keeping	A
Cascade occurs	course No	А	course	A
11. Exiting deep stall (parachutal stall)	A	7.		~~
Deep stall achieved	Yes	А	Yes	А
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
Change of course	Changing course less than 45°	Α	Changing course less than 45°	A
Cascade occurs	No	А	No	А
12. High angle of attack recovery	A			
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	С			
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	90° to 180° / Dive or roll angle 45° to 60°	С	90° to 180° / Dive or roll angle 15° to 45°	В
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° to 45°	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 75% collapse and accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	90° to 180° / Dive or roll angle 60° to 90°	С	90° to 180° / Dive or roll angle 45° to 60°	С
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	Α
Total change of course	Less than 360°	Α	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
15. Directional control with a maintained asymmetric collapse	Α			
Able to keep course	Yes	А	Yes	А
180° turn away from the collapsed side possible in 10 s	Yes	А	Yes	А
Amount of control range between turn and stall or spin	More than 50 % of the	А	More than 50 % of the symmetric	А
	symmetric control travel		control travel	

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	D			
Spin rotation angle after release	Stops spinning in less than 90°	А	Stops spinning in 180° to 360°	D
Cascade occurs	No	А	No	А
19. B-line stall	0			
Change of course before release	not available	0	not available	0
Behaviour before release	not available	0	not available	0
Recovery	not available	0	not available	0
Dive forward angle on exit	not available	0	not available	0
Cascade occurs	not available	0	not available	0
20. Big ears	В			
Entry procedure	Dedicated controls	А	Dedicated controls	А
Behaviour during big ears	Stable flight	А	Stable flight	А
Recovery	Recovery through pilot action in less than a further 3 s	В	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	Recovery through pilot action in less than a further 3 s	В	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	Α
Turn angle to recover normal flight	Less than 720°, spontaneous recovery	A	Less than 720°, spontaneous recovery	Α
Sink rate when evaluating spiral stability [m/s]	19		18	
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	In Übereinstimmung mit der Betriebsanleitung ist ein B-Stall nicht empfohlen		According to the user manual, a B- Stall is not recommended	