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## AIR TURQUOISE SA certified by





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Manufacturer	Ozone Gliders		Certification number		PG_0504.2011	
Address	2, Queens Drive LA46LN . UK		Date of flight test		11. 11. 2011	
Representative	David Dagault		Place of test		Villeneuve	
Glider model	Enzo M		Classification		D	
Trimmer	no					
	Test	t pilot	Thurnheer Claude		Zoller Alain	
	Ha	rness	Niviuk Gliders - Hamak M		Gin Gliders - Gingo 2 L	
	Total weight in fligh	t (kg)	100		115	
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 r	equired		No	А	No	А
2. Landing			Α			
Special landing technique r	equired		No	А	No	Α
3. Speed in straight flight			В			
Trim speed more than 30 k	m/h		Yes	А	Yes	А
Speed range using the cont	trols larger than 10 km/h		Yes	А	Yes	Α
Minimum speed			25 km/h to 30 km/h	В	25 km/h to 30 km/h	В
4. Control movement			D			
Max. weight in flight up to 8	0 kg					
Symmetric control pressure	/ travel		not available	0	not available	0
Max. weight in flight 80 kg t	o 100 kg					
Symmetric control pressure	/ travel		not available	Δ	not available	Ο

Symmetric control pressure / travel	not available	0	not available	0
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	Increasing / 35 cm to 50 cm	D	Increasing / 35 cm to 50 cm	D
5. Pitch stability exiting accelerated flight	Α			
Dive forward angle on exit	Dive forward less than 30°	А	Dive forward less than 30°	А
Collapse occurs	No	А	No	А
6. Pitch stability operating controls during accelerated flight	A			
Collapse occurs	No	А	No	А
7. Roll stability and damping	Α			
Oscillations	Reducing	А	Reducing	А
8. Stability in gentle spirals	Α			
Tendency to return to straight flight	Spontaneous exit	А	Spontaneous exit	А
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	D			
Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery	Recovery through pilot action between a further 3 s to 5 s	D	Recovery through pilot action between a further 3 s to 5 s	D
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Entering a turn of 90° to 180°	С
Cascade occurs	No	А	No	А
With accelerator				
Entry	Rocking back greater than 45°	С	Rocking back less than 45°	А

Recovery	Recovery through pilot action between a further 3 s to 5 s	D	Recovery through pilot action between a further 3 s to 5 s	D
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	А	Dive forward 0° to 30° / Entering a turn of 90° to 180°	С
Cascade occurs	No	А	No	А
11. Exiting deep stall (parachutal stall)	Α			
Deep stall achieved	Yes	А	Yes	А
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
Change of course	Changing course less than 45°	А	Changing course less than 45°	А
Cascade occurs	No	А	No	А
12. High angle of attack recovery	А			
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	С			
Dive forward angle on exit	Dive forward 60° to 90°	С	Dive forward 30° to 60°	В
Collapse	No collapse	А	Symmetric collapse	С
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	P			
With 50% collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45°	А	Less than 90° / Dive or roll angle 15° to 45°	А
Re-inflation behaviour	Inflates in less than 3 s from start of pilot action	С	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	No	A	No	A
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 roll angle	90° to 180° / Dive or roll angle 45° to 60°	С	90° to 180° / Dive or roll angle 60° to 90°	С
Re-inflation behaviour	Inflates in less than 3 s from start of pilot action	С	Inflates in 3 s to 5 s from start of pilot action	D
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	No	А	Yes, no turn reversal	С
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°	А	90° to 180° / Dive or roll angle 0° to 15°	А
Re-inflation behaviour	Inflates in less than 3 s from start of pilot action	С	Inflates in less than 3 s from start of pilot action	С
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
	Inflates in less than 3 s from	С	Inflates in 3 s to 5 s from start of pilot action	D
Re-inflation behaviour	start of pilot action			
Re-inflation behaviour Total change of course	start of pilot action Less than 360°	А	Less than 360°	А
		A A	•	A D
Total change of course	Less than 360°		Less than 360°	

15. Directional control with a maintained asymmetric collapse	A			
Able to keep course	Yes	А	Yes	А
180° turn away from the collapsed side possible in 10 s	Yes	A	Yes	A
Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	A	More than 50 % of the symmetric control travel	A
16. Trim speed spin tendency	A			
Spin occurs	No	А	No	А
17. Low speed spin tendency	Α			
Spin occurs	No	А	No	А
18. Recovery from a developed spin	Α			
Spin rotation angle after release	Stops spinning in less than $90^\circ$	А	Stops spinning in less than 90°	А
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	С			
Entry procedure	Dedicated controls	А	Dedicated controls	А
Behaviour during big ears	Unstable flight	С	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	D			
Entry procedure	Dedicated controls	А	Dedicated controls	А
Behaviour during big ears	Unstable flight	С	Unstable flight	С
Recovery	Spontaneous in less than 3 s	A	Recovery through pilot action between a further 3 s to 5 s	D
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	Unstable flight	С
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	A
Sink rate when evaluating spiral stability [m/s]	16		23	
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			This glider meets the minimum requirements of EN/LTF class D. According to the manufacturer and confirmed by our own testing this glider addresses highly experienced comp-pilots (PWC level) exclusively and is no replacement for the standard D- class-glider of the same manufacturer.	