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AIR TURQUOISE SA certified by



Flight test report:	EN
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Manufacturer Address	Gradient s.r.o. Plzenska 221/130 150 00 Praha 5 - Motol	Certification number Date of flight test		PG_0746.2013 12. 08. 2013	1828
Representative Glider model	Czech Republic None Golden4 22	Place of test Classification		Villeneuve B	
Trimmer	no				
	Testailet	Fulwaka Caika		Thumphoon Cloude	
		Fukuoka Seiko		Thurnheer Claude	
		Sup' Air - XX-Lite		Niviuk Gliders - Konvers M	
	Total weight in flight (kg)			77	
1. Inflation/Take-off		A Creath and anotart rising	•	Concette and an atom sizing	•
Rising behaviour		Smooth, easy and constant rising	A	Smooth, easy and constant rising	A
Special take off technique 2. Landing	required	No A	A	No	A
Special landing technique	roquired	No	А	No	А
3. Speed in straight fligh		B	~	NO	A
Trim speed more than 30		Yes	А	Yes	А
Speed range using the col		Yes	A	Yes	A
Minimum speed		25 km/h to 30 km/h	В	25 km/h to 30 km/h	В
4. Control movement		A	_		-
Max. weight in flight up to	80 ka				
Symmetric control pressur		Increasing / greater than 55 cm	А	Increasing / greater than 55 cm	А
Max. weight in flight 80 kg		0.0		5 5	
Symmetric control pressur		not available	0	not available	0
Max. weight in flight greate					
Symmetric control pressur	re / travel	not available	0	not available	0
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 operatir flight	ng controls during accelerated	Α			
Collapse occurs		No	А	No	А
7. Roll stability and dam	ping	Α			
Oscillations		Reducing	А	Reducing	А
8. Stability in gentle spir	als	Α			
Tendency to return to stra	ight 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 colla	apse	В			
Entry		Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery		Spontaneous in 3 s to 5 s	В	Spontaneous in less than 3 s	Α
Dive forward angle on exit	/ Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Keeping course	A
Cascade occurs		No	А	No	А
With accelerator					
Entry		Rocking back less than 45°	A	Rocking back less than 45°	A
Recovery		Spontaneous in 3 s to 5 s	В	Spontaneous in 3 s to 5 s	В

Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Entering	А	Dive forward 0° to 30° / Keeping	A
	a turn of less than 90°	A	course	A
Cascade occurs	No	A	No	A
11. Exiting deep stall (parachutal stall)	Α			
Deep stall achieved	Yes	A	Yes	A
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	A
Dive forward angle on exit	Dive forward 0° to 30°	Α	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	Α			
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Cascade occurs	No	Α	No	A
13. Recovery from a developed full stall	В			
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 30° to 60°	В
Collapse	No collapse	Α	No collapse	A
Cascade occurs (other than collapses)	No	Α	No	A
Rocking back	Less than 45°	Α	Less than 45°	A
Line tension	Most lines tight	А	Most lines tight	А
14. Asymmetric collapse	В			
With 50% collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	90° to 180° / 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 15° to 45°	В	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	90° to 180° / 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	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 15° to 45°	В	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
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	A	Yes	A
Amount of control range between turn and stall or spin	More than 50 % of the	Α	More than 50 % of the symmetric	A
	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	Α			
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	Α			
Change of course before release	Changing course less than 45°	А	Changing course less than 45°	А
Behaviour before release	Remains stable with straight span	А	Remains stable with straight span	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
Cascade occurs	No	А	No	А
20. Big ears	Α			
Entry procedure	Dedicated controls	А	Dedicated controls	А
Behaviour during big ears	Stable flight	А	Stable flight	Α
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	Α
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	Spontaneous in less than 3 s	А
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	А	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]	15		17	
23. Alternative means of directional control	Α			
180° turn achievable in 20 s	Yes	Α	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				