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MCC Aviation SA

PG_0624.2012

AIR TURQUOISE SA certified by



Flight test report: EN

Manufacturer

Recovery

Manufacturer	MOU AVIALION DA	Certification number		10_0024.2012	
Address	La Tuilière 1091 Grandvaux Switzerland	Date of flight test		05. 06. 2012	
Representative	Alexandre Paux	Place of test		Villeneuve	
, Glider model	Arolla S	Classification		Α	
Trimmer	no				
	10				
	Test pilot	Fukuoka Seiko		Thurnheer Claude	
	•	Sup'Air - Altiplume M		Sup'Air - Access M	
		• •		•	
A lastic tion (Tales off	Total weight in flight (kg)			87	
1. Inflation/Take-off		A Creath accurate and constant vision	^	Connection and connectant vision	•
Rising behaviour	and any sine of	Smooth, easy and constant rising		Smooth, easy and constant rising	A
Special take off technique	required	No	A	No	A
2. Landing		A	•	Na	^
Special landing technique		No	A	No	A
3. Speed in straight fligh		A	^	No.	•
Trim speed more than 30		Yes	A	Yes	A
Speed range using the controls larger than 10 km/h		Yes	A	Yes	A
Minimum speed		Less than 25 km/h	A	Less than 25 km/h	A
4. Control movement	80 ka	Α			
Max. weight in flight up to 80 kg		Increasing / greater than 55 cm	А	not available	0
Symmetric control pressure / travel		increasing / greater than 55 cm	A		0
Max. weight in flight 80 kg to 100 kg		not available	0	not available	0
Symmetric control pressure / travel		not available	0		0
Max. weight in flight greater than 100 kg Symmetric control pressure / travel		not available	0	Increasing / greater than 65 cm	А
		A	0	increasing / greater than 05 cm	~
5. Pitch stability exiting accelerated flight Dive forward angle on exit		Dive forward less than 30°	А	Dive forward less than 30°	А
5		No	A	No	A
6. Pitch stability operating controls during accelerated		A	~		~
flight		8			
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 straight flight		Spontaneous exit	А	Spontaneous exit	А
9. Behaviour in a steeply	y banked turn	Α			
Sink rate after two turns		Up to 12 m/s	А	12 m/s to 14 m/s	А
10. Symmetric front colla	apse	Α			
Entry		Rocking back less than 45°	Α	Rocking back less than 45°	А
Recovery		Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	А
Dive forward angle on exit	t / Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Keeping course	A
Cascade occurs		No	A	No	А
With accelerator					
Entry		Rocking back less than 45°	A	Rocking back less than 45°	А
Doonvorv.		Spontanoous in loss than 3 s	۸	Spontaneous in less than 3 s	۸

Certification number

А

A Spontaneous in less than 3 s

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
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	Α			
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	A	No	A
Rocking back	Less than 45°	A	Less than 45°	Α
Line tension	Most lines tight	A	Most lines tight	A
14. Asymmetric collapse	A			
With 50% collapse	2			
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° $$	А
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	Less than 90° / Dive or roll angle 15° to 45°	A	Less than 90° / Dive or roll angle 15° to 45°	А
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 0° to 15°	А	90° to 180° / 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 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
15. Directional control with a maintained asymmetric	Α			
collapse				
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 symmetric control travel	А	More than 50 % of the symmetric control travel	A

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	А			
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	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	A	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°	Α	Dive forward 0° to 30°	А
Cascade occurs	No	А	No	А
20. Big ears	Α			
Entry procedure	Standard technique	Α	Standard technique	А
Behaviour during big ears	Stable flight	Α	Stable flight	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
21. Big ears in accelerated flight	Α			
Entry procedure	Standard technique	Α	Standard technique	А
Behaviour during big ears	Stable flight	А	Stable flight	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°	Α	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	Α
Sink rate when evaluating spiral stability [m/s]	17		16	
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				