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Escape Gliders

PG_0658.2013

AIR TURQUOISE SA certified by



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Flight test report: EN

Manufacturer

manadotaro	_coupe endere			1 0_000012010	
Address	489, route de Grasse 06140 Vence France	Date of flight test		17. 01. 2013	
Representative	Alloix Pierre-Yves	Place of test		Villeneuve	
Glider model	S21 S	Classification		В	
Trimmer	no				
	Test pilot	Dupont Philippe		Thurnheer Claude	
	•	Sup'Air - Altiplume S		Sky Paragliders - Revel II M	
	Total weight in flight (kg)			85	
1. Inflation/Take-off		A			
Rising behaviour		Smooth, easy and constant rising	А	Smooth, easy and constant rising	А
Special take off technique r	equired	No	А	No	А
2. Landing		А			
Special landing technique r	equired	No	А	No	А
3. Speed in straight flight		Α			
Trim speed more than 30 km/h		Yes	А	Yes	А
Speed range using the cont	trols larger than 10 km/h	Yes	А	Yes	А
Minimum speed		Less than 25 km/h	А	Less than 25 km/h	А
4. Control movement		Α			
Max. weight in flight up to 8					
Symmetric control pressure / travel		Increasing / greater than 55 cm	А	not available	0
Max. weight in flight 80 kg t					
Symmetric control pressure		not available	0	Increasing / greater than 60 cm	A
Max. weight in flight greater					
Symmetric control pressure		not available	0	not available	0
5. Pitch stability exiting a	ccelerated flight	A	•		
Dive forward angle on exit		Dive forward less than 30°	A	Dive forward less than 30°	A
Collapse occurs		No	А	No	A
6. Pitch stability operating	g controls during accelerated	Α			
Collapse occurs		No	А	No	А
7. Roll stability and damp	ing	Α			

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7. Roll stability and damping	Α		
Oscillations	Reducing	А	Reducing
8. Stability in gentle spirals	Α		
Tendency to return to straight flight	Spontaneous exit	А	Spontaneous exit
9. Behaviour in a steeply banked turn	В		
Sink rate after two turns	12 m/s to 14 m/s	А	More than 14 m/s
10. Symmetric front collapse	Α		
Entry	Rocking back less than 45°	А	Rocking back less than 45°
Recovery	Spontaneous in less than 3 s	А	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
Cascade occurs	No	А	No
With accelerator			
Entry	Rocking back less than 45°	А	Rocking back less than 45°
Recovery	Spontaneous in less than 3 s	А	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°	A
Line tension	Most lines tight	A	Most lines tight	A
14. Asymmetric collapse	A			
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° $$	А
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	No	А	No	А
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
With 75% collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 0° to 15° $$	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 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	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 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	A	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	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	A	Remains stable with straight span	A
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	Α	Dedicated controls	А
Behaviour during big ears	Stable flight	А	Stable flight	А
Recovery	Spontaneous in less than 3 s	А	Spontaneous in 3 s to 5 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 3 s to 5 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]	15		18	
23. Alternative means of directional control	А			
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				