para-test.com paragliding by air turquoise

Apco Aviation Ltd.

PG_0431.2011

AIR TURQUOISE SA certified by



Manufacturer

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	Address	7, Chalamish St., Industrial park 38900 Caesarea Israel	Date of flight test		01. 04. 2011	
	Representative	None	Place of test		Villeneuve	
	Glider model	Vista II SP S	Classification		B	
			Classification		8	
	Trimmer	no				
		Test pilot	Thurnheer Claude		Zoller Alain	
		Harness	Sup' Air - Altiplume S		Sup'Air - Altiplume M	
		Total weight in flight (kg)	75		95	
	1. Inflation/Take-off		Α			
	Rising behaviour		Smooth, easy and constant rising	А	Smooth, easy and constant rising	А
	Special take off technique	required	No	А	No	А
	2. Landing		Α			
	Special landing technique required		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 controls 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		Increasing / greater than 55 cm	А	not available	0
	Max. weight in flight 80 kg		and a set the black	•		•
	Symmetric control pressure		not available	0	Increasing / greater than 60 cm	A
	Max. weight in flight greate	-	not available	0	not available	0
	Symmetric control pressure / travel 5. Pitch stability exiting accelerated flight		A	0		0
	Dive forward angle on exit		Dive forward less than 30°	А	Dive forward less than 30°	А
	Collapse occurs		No	A	No	A
6. Pitch stability operating controls during accelerated flight		A	7		~	
	Collapse occurs		No	А	No	А
	7. Roll stability and damp	ing	Α			
	Oscillations		Reducing	А	Reducing	А
	8. Stability in gentle spirals		Α			
	Tendency to return to straig	ght flight	Spontaneous exit	А	Spontaneous exit	А
	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	В
			-			

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	rendency to return to straight night	Spontaneous exit	~	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	В
	10. Symmetric front collapse	В			
	Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
	Recovery	Spontaneous in less than 3 s	А	Spontaneous in 3 s to 5 s	В
	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°	А	Rocking back less than 45°	А

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Recovery	Spontaneous in less than 3 s	A	Spontaneous in 3 s to 5 s	B
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	A	No	A
11. Exiting deep stall (parachutal stall)	Α			
Deep stall achieved	Yes	А	Yes	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
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	0			
Recovery	not available	0	not available	0
Cascade occurs	not available	0	not available	0
13. Recovery from a developed full stall	В			
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 30° to 60°	В
Collapse	No collapse	А	No collapse	A
Cascade occurs (other than collapses)	No	А	No	A
Rocking back	Less than 45°	А	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	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 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	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 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	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	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	Spontaneous in 3 s to 5 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
21. Big ears in accelerated flight	Α			
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	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
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	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	APCO user's manual: B-stall is strictly not recommended on the VISTA II SP use anther method to descend.		APCO user's manual: B-stall is strictly not recommended on the VISTA II SP use anther method to descend.	