AIR TURQUOISE SA | PARA-TEST.COM

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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Flight test report: EN 926-2:2013 & LTF 91/09

J					
Manufacturer	Advance Thun AG	Certification number	PG_1662.2020		
Address	Uttigenstrasse 87 3600 Thun Switzerland	Flight test	2	8.05.2020	
Glider model	Alpha7 22	Classification	Δ		
Serial number	84546	Representative	N	lone	
Trimmer no Folding lines used no		Place of test	v	'illeneuve	
	10				
Test pilot		Light pilot under Air Turquoise supervision	C	Claude Thurnheer	
Harness		Flugsau - XX-Lite	Advance - Success 4 M		
Harness to risers di	stance (cm)	40	4	44	
Distance between ri		38	-	44	
	X 7				
Total weight in flight (kg)		50	85		
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		А
2. Landing		Α			
Special landing technique	required	No	А	No	А
3. Speed in straight fligh	t	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 t	o 80 kg				
Symmetric control pressure / travel		Increasing / greater than 55 cm	А	not available	0
Max. weight in flight 80 k	to 100 kg				
Symmetric control pressure / travel		not available	0	Increasing / greater than 60 cm	A
Max. weight in flight grea	ater than 100 kg				
Symmetric control pressur	e / travel	not available	0	not available	0
5. Pitch stability exiting a	accelerated flight	Α			
Dive forward angle on exit		Dive forward less than 30°	А	Dive forward less than 30°	A
Collapse occurs		No	А	No	A
flight	ng controls during accelerated	Α			
Collapse occurs		No	A	No	A
7. Roll stability and dam	ping	A			
Oscillations		Reducing	А	Reducing	A
8. Stability in gentle spir		A Occurrent and the		Occurrence in the	
Tendency to return to strai		Spontaneous exit	A	Spontaneous exit	A
9. Behaviour exiting a fu		A			
Initial response of glider (fi		Immediate reduction of rate of turn	A	Immediate reduction of rate of turn	A
Tendency to return to strai	gnt flight	Spontaneous exit (g force decreasing, rate of turn decreasing)	A	Spontaneous exit (g force decreasing, rate of turn decreasing)	A
					А
Turn angle to recover norr	nal flight	Less than 720°, spontaneous recovery	A	Less than 720°, spontaneous recovery	
·		Less than 720°, spontaneous recovery A	A	Less than 720°, spontaneous recovery	
Turn angle to recover norr	apse	recovery	A	· •	

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Deserves		•		•
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
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
Folding lines used	No		No	
At least 50% chord				
Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Keeping course	Α
Cascade occurs	No	А	No	А
Folding lines used	No		No	
With accelerator				
Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	A		А
Cascade occurs	No	А	No	А
Folding lines used	No		No	
11. Exiting deep stall (parachutal stall)	A			
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°	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		No	A
12. High angle of attack recovery	A	~		~~~
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Cascade occurs	No	A	No	A
13. Recovery from a developed full stall	A	Λ		Λ
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
Collapse	No collapse	A	No collapse	A
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			
Small asymmetric 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 (or only a small number of	А	No (or only a small number of	А
	collapsed cells with a spontaneous reinflation)		collapsed cells with a spontaneous reinflation)	
Twist occurs	No	A	No	А
Cascade occurs	No	А	No	А
Folding lines used	No		No	
Large asymmetric 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°	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 (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
Folding lines used	No		No	
Small asymmetric collapse with fully activated 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°	Α
Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	A

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Total change of course	Less than 360°	A	Less than 360°	A
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
Folding lines used	No		No	
Large asymmetric collapse with fully activated 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	Α	Spontaneous re-inflation	А
Total change of course	Less than 360°	Α	Less than 360°	А
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	А	No	А
Cascade occurs	No	Α	No	А
Folding lines used	No		No	
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	Α	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	Α	No	А
20. Big ears	Α			
Entry procedure	Dedicated controls	А	Dedicated controls	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°	Α	Dive forward 0° to 30°	A
21. Big ears in accelerated flight	Α			
Entry procedure	Dedicated controls	Α	Dedicated controls	Α
Behaviour during big ears	Stable flight	A	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°	A	Dive forward 0° to 30°	A
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	A	Stable flight	A
22. Alternative means of directional control	Α			-
180° turn achievable in 20 s	Yes	A	Yes	A
Stall or spin occurs	No	А	No	A
23. Any other flight procedure and/or configuration described in the user's manual	A			
Procedure works as described	Yes	A	not available	0
Procedure suitable for novice pilots	Yes	A	not available	0
Cascade occurs	No	A	not available	0
24. Comments of test pilot				