## AIR TURQUOISE SA | PARA-TEST.COM

Route du Pré-au-Comte 8 🔺 CH-1844 Villeneuve 🔺 +41 (0)21 965 65 65

Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



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

5						
Manufacturer	Advance Thun AG	Certification number	F	PG_1665.2020		
Address Uttigenstrasse 87		Flight test	1	2.03.2020		
	3600 Thun	5				
	Switzerland					
Glider model	Alpha7 28	Classification	Α			
Serial number	84550	Representative	None			
Trimmer	no	Place of test		Villeneuve		
Folding lines used	no		-			
Test pilot		Claude Thurnheer	A	Anselm Rauh		
Harness		Advance - Success 4 M	ç	Supair - Evo XC 3 L		
Harness to risers distance (cm) Distance between risers (cm)		44		44		
		Total weight in flight	: (kg)	85	1	25
1. Inflation/Take-off		Α				
Rising behaviour		Smooth, easy and constant rising	А	Smooth, easy and constant rising	A	
Special take off technique required		No	А	No	A	
2. Landing		Α				
Special landing technique r	equired	No	А	No	A	
3. Speed in straight flight		Α				
Trim speed more than 30 k	m/h	Yes	А	Yes	A	
Speed range using the controls larger than 10 km/h		Yes	А	Yes	A	
Minimum speed		Less than 25 km/h	А	Less than 25 km/h	A	
4. Control movement		Α				
Max. weight in flight up to						
Symmetric control pressure / travel		not available	0	not available	0	
Max. weight in flight 80 kg to 100 kg					_	
Symmetric control pressure / travel		Increasing / greater than 60 cm	A	not available	0	
Max. weight in flight great	-	and an a link in	•	la energia en		
Symmetric control pressure		not available	0	Increasing / greater than 65 cm	A	
5. Pitch stability exiting a	ccelerated flight	A Dive featured loss than 20°	^	Dive forward less than 30°	^	
Dive forward angle on exit		Dive forward less than 30°	A		A	
	g controls during accelerated	No A	A	No	A	
flight		No	^	No	^	
Collapse occurs 7 Poll stability and damp	ing	No A	A	No	Α	
7. Roll stability and damping Oscillations		Reducing	Δ	Reducing	А	
8. Stability in gentle spira	ls	A	~	Reducing	4	
Tendency to return to straig		A Spontaneous exit	А	Spontaneous exit	А	
9. Behaviour exiting a full		A	73		~	
Initial response of glider (fin		Immediate reduction of rate of turn	А	Immediate reduction of rate of turn	А	
Tendency to return to straig	· ·	Spontaneous exit (g force decreasing, rate of turn decreasing)	A	Spontaneous exit (g force decreasing, rate of turn decreasing)	А	
Turn angle to recover norm	al flight	Less than 720°, spontaneous recovery	A	C. C,	A	
10. Symmetric front colla	pse	Α				
Approximately 30 % chore						
Entry		Rocking back less than 45°	А	Rocking back less than 45°	Α	
•		Spontaneous in less than 3 s		Spontaneous in less than 3 s	А	

Test Report generated automatically by AIR TURQUOISE SA, valid without signature RE | rev 05 | 16.04.2018 // ISO | 91.22 // Page 1 of 3

	Folding lines used Small asymmetric collapse with fully activated accelerator	No		No	
	Cascade occurs	No	А	No	А
	Twist occurs	No	А	No	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
	Total change of course	Less than 360°	А	Less than 360°	А
	roll angle Re-inflation behaviour	15° to 45° Spontaneous re-inflation	A	15° to 45° Spontaneous re-inflation	А
	Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or	Less than 90° / Dive or roll angle	А	Less than 90° / Dive or roll angle	A
	Folding lines used	No		No	
	Cascade occurs	No	А	No	А
	Twist occurs	reinflation) No	А	reinflation) No	А
	Conapse on the opposite side occurs	collapsed cells with a spontaneous	А	collapsed cells with a spontaneous	А
	Collapse on the opposite side occurs	No (or only a small number of	A	No (or only a small number of	A
	Total change of course	Spontaneous re-inflation	A	Spontaneous re-inflation	A A
	Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour	Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation	A A	Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation	A
	14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation ( Maximum dive ferward or	A	۸	Loss than 00° / Divo or roll angle	۸
	Line tension	Most lines tight	A	Most lines tight	A
	Rocking back	Less than 45°	A	Less than 45°	A
	Cascade occurs (other than collapses)	No	A	No	A
	Collapse	No collapse	A	No collapse	A
	Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
	13. Recovery from a developed full stall	Α			
	Cascade occurs	No	А	No	А
	Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
	12. High angle of attack recovery	A			
	Cascade occurs	No		No	A
	Change of course	Changing course less than 45°	A	Changing course less than 45°	A
	Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
	Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
	Deep stall achieved	Yes	А	Yes	А
	11. Exiting deep stall (parachutal stall)	A			
	Cascade occurs Folding lines used	No No	A	No No	A
	Concordo ecouro	course	•	course	۸
	Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping	А	Dive forward 0° to 30° / Keeping	А
	Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
	Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
	With accelerator				
	Folding lines used	No		No	
	Cascade occurs	No	А	No	А
Dive forward angle on exit / Change of course		Dive forward 0° to 30° / Keeping course	А	Dive forward 0° to 30° / Keeping course	А
	Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
	Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
	At least 50% chord				
	Folding lines used	No		No	
	Cascade occurs	No	А	No	А
	Dive forward angle on exit Change of course	Dive forward 0° to 30° Keeping course	А	Dive forward 0° to 30° Keeping course	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	A	No	A
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°	А	Less than 90° / Dive or roll angle $15^{\circ}$ to $45^{\circ}$	A
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
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	Α	No	А
Cascade occurs	No	А	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	А
16. Trim speed spin tendency	Α			
Spin occurs	No	Α	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	Α	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°	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 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
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	А	Yes	А
Stall or spin occurs	No	А	No	А
23. Any other flight procedure and/or configuration described in the user's manual	0			
Procedure works as described	not available	0	not available	0
	and a collected	0	not available	0
Procedure suitable for novice pilots	not available	0	not available	U

Test Report generated automatically by AIR TURQUOISE SA, valid without signature RE | rev 05 | 16.04.2018 // ISO | 91.22 // Page 3 of 3