## 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 & NfL 2-565-20

5					
Manufacturer Niviuk Gliders / Air Games S.L.		Certification number	F	PG_1772.2021	
Address C. Del Ter, 6 Nave D 17165 La Cellera de Ter Girona Spain		Flight test	1	7.02.2021	
Glider model	-		A	N Contraction of the second seco	
Serial number T			Ν	None	
Trimmer no		Representative Place of test		/illeneuve	
	0		·		
Test pilot		Magali Asseraf	A	Alexandre Jofresa	
Harness		Supair - Altiplume S	S	Supair - Altiplume M	
Harness to risers distance (cm)		44	4	44	
Distance between risers (cm)		40		4	
		65		<del>14</del> 90	
Total weight in flight (I	ry)	05	9		
1. Inflation/Take-off		Α			
Rising behaviour		Smooth, easy and constant rising	А	Smooth, easy and constant rising	А
Special take off technique req	uired	No	А	No	А
2. Landing		А			
Special landing technique req	Special landing technique required		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	0 kg				
Symmetric control pressure / f	travel	Increasing / greater than 55 cm	А	not available	0
Max. weight in flight 80 kg to 100 kg					
Symmetric control pressure / travel		not available	0	Increasing / greater than 60 cm	А
Max. weight in flight greater than 100 kg					
Symmetric control pressure / travel		not available	0	not available	0
5. Pitch stability exiting acc	elerated flight	A Dive forward less than 30°			
Ŭ	Dive forward angle on exit		A	Dive forward less than 30°	A
Collapse occurs 6. Pitch stability operating controls during accelerated		No A	A	No	A
flight Collapse occurs		No	А	No	А
7. Roll stability and damping	a	A	~		~
Oscillations		Reducing	А	Reducing	А
8. Stability in gentle spirals		A			
Tendency to return to straight	flight	Spontaneous exit	А	Spontaneous exit	А
9. Behaviour exiting a fully of		A			
Initial response of glider (first 180°)		Immediate reduction of rate of turn	А	Immediate reduction of rate of turn	А
Tendency to return to straight flight		Spontaneous exit (g force decreasing, rate of turn decreasing)	A	Spontaneous exit (g force decreasing, rate of turn decreasing)	A
Turn angle to recover normal flight		Less than 720°, spontaneous recovery	A	Less than 720°, spontaneous recovery	A
10. Symmetric front collaps	e	Α			
Approximately 30 % chord					

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 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	A	Dive forward 0° to 30° / Keeping	A
	course		course	
Cascade occurs	No	A	No	A
Folding lines used	No		No	
With accelerator				
Entry	Rocking back less than 45°	Α	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	A
Cascade occurs	No	А	No	А
Folding lines used	No		No	
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°	A	Dive forward 0° to 30°	A
Change of course	Changing course less than 45°	A	Changing course less than 45°	A
Cascade occurs	No	A	No	A
	A	A	NO	A
12. High angle of attack recovery		٨	Cooptonoous in loss than 2 s	۸
	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Cascade occurs	No	A	No	A
13. Recovery from a developed full stall	Α			
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	A
Collapse	No collapse	A	No collapse	A
Cascade occurs (other than collapses)	No	А	No	A
Rocking back	Less than 45°	А	Less than 45°	А
Line tension	Most lines tight	Α	Most lines tight	А
14. Asymmetric collapse	Α			
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 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				
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 0° to 15°	А
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	A	No (or only a small number of	A
	collapsed cells with a spontaneous reinflation)	7.	collapsed cells with a spontaneous reinflation)	~
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 0° to 15°	A	Less than 90° / Dive or roll angle 0° to 15°	A

Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	А
Total change of course	Less than 360°	A	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	
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 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 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	
15. Directional control with a maintained asymmetric	Α			
collapse				
Able to keep course	Yes	A	Yes	А
180° turn away from the collapsed side possible in 10 s	Yes	A	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	<b>A</b>			
Spin occurs	No	A	No	A
17. Low speed spin tendency	<b>A</b>			
Spin occurs	No	A	No	A
18. Recovery from a developed spin				•
Spin rotation angle after release	Stops spinning in less than 90°	A	Stops spinning in less than 90°	A
Cascade occurs	No	A	No	A
19. B-line stall	A	٨	Changing as used lass than 45°	^
Change of course before release	Changing course less than 45°	A	Changing course less than 45°	A
Behaviour before release	Remains stable with straight span	A	Remains stable with straight span	A
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
Cascade occurs	No A	A	No	A
20. Big ears	A Dedicated controls	۸	Dedicated controls	^
Entry procedure		A		A
Behaviour during big ears	Stable flight	A	Stable flight	A A
Recovery Dive forward angle on exit	Spontaneous in less than 3 s Dive forward 0° to 30°	A A	Spontaneous in less than 3 s Dive forward 0° to 30°	A
21. Big ears in accelerated flight	A	~	Dive forward 0 to 50	~
Entry procedure	A Dedicated controls	А	Dedicated controls	А
Behaviour during big ears	Stable flight	A	Stable flight	A
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
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	A			
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
Procedure suitable for novice pilots	not available	0	not available	0
Cascade occurs	not available	0	not available	0
24. Comments of test pilot				