## 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

<b>U I</b>					
Manufacturer	Niviuk Gliders / Air Games S.L.	Certification number		PG_1027.2016	
Address	C. Del Ter, 6 – Nave D 17165 La Cellera de Ter Girona Spain	Date of flight test		20. 05. 2016	
Glider model	Koyot 3 22	Classification		Α	
Serial number	Koyot 3 19-22	Representative		None	
Trimmer	no	Place of test		Villeneuve	
Folding lines used	no				
Test pilot		Light pilot under Air Turquoise supervision		Thurnheer Claude	
Harness		Flugsau - XX-Lite		Flugsau - XX-Lite	
Harness to risers o	listance (cm)	45		40	
Distance between	risers (cm)	38		40	
Total weight in flight (kg)		47		73	
1. Inflation/Take-off		Α			
Rising behaviour		Smooth, easy and constant rising	А	Smooth, easy and constant rising	А
Special take off technique	e required	No	А	No	А
2. Landing		Α			
Special landing technique		No	А	No	А
3. Speed in straight flight		Α			
Trim speed more than 30 km/h		Yes	A	Yes	A
Speed range using the controls larger than 10 km/h		Yes	A	Yes	A
Minimum speed		Less than 25 km/h	A	Less than 25 km/h	A
4. Control movement		Α			
Max. weight in flight up	to 80 kg				
Symmetric control pressure / travel		Increasing / greater than 55 cm	A	Increasing / greater than 55 cm	A
Max. weight in flight 80	• •				
Symmetric control pressu	ıre / travel	not available	0	not available	0
Max. weight in flight gro	•				
Symmetric control pressu		not available	0	not available	0
5. Pitch stability exiting		A Dive featured less than 20%	^	Dive ferward less than 20°	•
Dive forward angle on ex	IL	Dive forward less than 30° No	A	Dive forward less than 30° No	A A
Collapse occurs 6. Pitch stability operating controls during accelerated		A	A	NU	A
flight Collapse occurs		No	А	No	А
7. Roll stability and dan	nping	A	77		~
Oscillations		Reducing	А	Reducing	А
8. Stability in gentle spi	rals	A			
Tendency to return to straight flight		Spontaneous exit	А	Spontaneous exit	А
9. Behaviour exiting a fully developed spiral dive		Α			
Initial response of glider (	(first 180°)	Immediate reduction of rate of turn	A	Immediate reduction of rate of turn	А

Tendency to return to straight flightSpontaneous exit (g force decreasing), rate of turn decreasing)ASpontaneous exit (g force decreasing, rate of turn decreas decreasing)Turn angle to recover normal flightLess than 720°, spontaneous recoveryALess than 720°, spontaneous recovery10. Symmetric front collapseAApproximately 30 % chordAEntryRocking back less than 45° Spontaneous in less than 3 sADive forward angle on exit Change of courseDive forward 0° to 30° Keeping courseACascade occursNoANoFolding lines usedNoNoAt least 50% chordEntryRocking back less than 45° AARocking back less than 45°ANoFolding lines usedNoAAt least 50% chordEntryRocking back less than 45° AARocking back less than 45°ARocking back less than 45°	A A A A A A A
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EntryRocking back less than 45°ARocking back less than 45°RecoverySpontaneous in less than 3 sASpontaneous in less than 3 sDive forward angle on exit Change of courseDive forward 0° to 30° Keeping courseADive forward 0° to 30° Keeping courseCascade occursNoANoFolding lines usedNoNoAt least 50% chordASpontaneous in less than 45°	A A
EntryRocking back less than 45°ARocking back less than 45°RecoverySpontaneous in less than 3 sASpontaneous in less than 3 sDive forward angle on exit Change of courseDive forward 0° to 30° Keeping courseADive forward 0° to 30° Keeping courseCascade occursNoANoFolding lines usedNoNoAt least 50% chordASpontaneous in less than 45°	A A
RecoverySpontaneous in less than 3 sASpontaneous in less than 3 sDive forward angle on exit Change of courseDive forward 0° to 30° Keeping courseADive forward 0° to 30° Keeping courseCascade occursNoANoFolding lines usedNoNoNoAt least 50% chordASpontaneous in less than 3 s	A A
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       A       No         Folding lines used       No       No         At least 50% chord       Vertice       Vertice	A
course     course       Cascade occurs     No       Folding lines used     No       At least 50% chord     K	
Folding lines usedNoNoAt least 50% chordKK	A
At least 50% chord	
	А
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 A Dive forward 0° to 30° / Keeping	A
course course	
Cascade occurs No A No	А
Folding lines used No No	
With accelerator	
Entry Rocking back less than 45° A Rocking back less than 45°	А
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 A Dive forward 0° to 30° / Keeping	A
course course	
Cascade occurs No A No	А
Folding lines used No No	
11. Exiting deep stall (parachutal stall) A	
Deep stall achieved Yes A Yes	A
Recovery     Spontaneous in less than 3 s     A     Spontaneous in less than 3 s       Divertigence     Divertigence     A     Divertigence	A
Dive forward 0° to 30°     A     Dive forward 0° to 30°       Changing adverse lage than 45°     A     Changing adverse lage than 45°	A
Change of courseChanging course less than 45°AChanging course less than 45°Cascade occursNoANo	A A
12. High angle of attack recovery A	A
Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s	А
Cascade occurs No A No	A
13. Recovery from a developed full stall A	
Dive forward of to 30° A Dive forward 0° to 30°	А
Collapse No collapse A No collapse	А
Cascade occurs (other than collapses) No A No	А
Rocking backLess than 45°ALess than 45°	А
Line tension Most lines tight A Most lines tight	А
14. Asymmetric collapse A	
Small asymmetric collapse	
Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or $1 ess than 90^\circ$ / Dive or roll angle A less than 90° / Dive or roll angle	∩° ∆
Small asymmetric collapse         Change of course until re-inflation / Maximum dive forward or roll angle       Less than 90° / Dive or roll angle       A       Less than 90° / Dive or roll angle         roll angle       0° to 15°       to 15°       to 15°	0° A
Change of course until re-inflation / Maximum dive forward or Less than 90° / Dive or roll angle A Less than 90° / Dive or roll angle	0° A A
Change of course until re-inflation / Maximum dive forward or roll angle 0° to 15° Less than 90° / Dive or roll angle A Less than 90° / Dive or roll angle to 15°	
Change of course until re-inflation / Maximum dive forward or roll angleLess than 90° / Dive or roll angle 0° to 15°ALess than 90° / Dive or roll angle to 15°Re-inflation behaviourSpontaneous re-inflationASpontaneous re-inflationSpontaneous re-inflation	A A A
Change of course until re-inflation / Maximum dive forward or roll angleLess than 90° / Dive or roll angle 0° to 15°ALess than 90° / Dive or roll angle to 15°Re-inflation behaviourSpontaneous re-inflationASpontaneous re-inflationATotal change of courseLess than 360°ALess than 360°Collapse on the opposite side occursNo (or only a small number of collapsed cells with aANo (or only a small number of collapsed cells with a	A A A
Change of course until re-inflation / Maximum dive forward or roll angleLess than 90° / Dive or roll angle 0° to 15°ALess than 90° / Dive or roll angle to 15°Re-inflation behaviourSpontaneous re-inflationASpontaneous re-inflationATotal change of courseLess than 360°ALess than 360°Collapse on the opposite side occursNo (or only a small number of collapsed cells with a spontaneous reinflation)ANo (or only a small number of collapsed cells with a spontaneous 	A A Js

## 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° $$	A	Less than 90° / Dive or roll angle 15° to 45°	A
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
Folding lines used	No		No	
Small asymmetric collapse with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 0° to 15° $$	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 (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	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 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	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	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	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

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	А
22. Alternative means of directional control	Α			
180° turn achievable in 20 s	Yes	Α	Yes	А
Stall or spin occurs	No	Α	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				
Commente				

Comments