

Flight test report: EN 926-2:2013

i light test rep	OIL. LIN 520-2.2015				
Manufacturer	Niviuk Gliders / Air Games S.L.	Certification number		PG_0895.2014	
Address	C. Del Ter, 6 – Nave D 17165 La Cellera de Ter Girona Spain	Date of flight test		05. 01. 2015	
Glider model	Artik 4 29	Classification		С	
Serial number	Artik 4 1-29	Representative		None	
Trimmer	no	Place of test		Villeneuve	
Test pilot		Thurnheer Claude		Berruex Gilles	
Harness		Niviuk - Hamak M		Niviuk - Hamak XL	
Harness to risers distance (cm)		44		44	
Distance between r		44		48	
				126	
Total weight in fligh	it (Kg)	105		120	
1. Inflation/Take-off		В			
Rising behaviour		Easy rising, some pilot correction is required	В	Easy rising, some pilot correction is required	В
Special take off technique	required	No	А	No	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	Α	Less than 25 km/h	А
4. Control movement		С			
Max. weight in flight up	to 80 kg				
Symmetric control pressu	re / travel	not available	0	not available	0
Max. weight in flight 80 l	kg to 100 kg				
Symmetric control pressu	re / travel	not available	0	not available	0
Max. weight in flight gre	ater than 100 kg				
Symmetric control pressur	e / travel	Increasing / 50 cm to 65 cm	С	Increasing / greater than 65 cm	А
5. Pitch stability exiting	accelerated flight	Α			
Dive forward angle on exit	:	Dive forward less than 30°	A	Dive forward less than 30°	A
Collapse occurs		No	Α	No	A
6. Pitch stability operatii 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			
Tendency to return to stra	• •	Spontaneous exit	A	Spontaneous exit	А
-	Ily developed spiral dive	A			
Initial response of glider (f		Immediate reduction of rate of turn	A	Immediate reduction of rate of turn	A
Tendency to return to stra	ight 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 collapse	В			
Approximately 30 % chord				
Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery	Spontaneous in less than 3 s	Α	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	А	No	А
A41				
At least 50% chord	Rocking back less than 45°	А	Rocking back less than 45°	А
Entry	•		Spontaneous in 3 s to 5 s	В
Recovery	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° / Entering a turn of less than 90°	A
Cascade occurs	No	А	No	А
Folding lines used	No	А	No	А
With accolorator				
With accelerator Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery	Spontaneous in 3 s to 5 s	B	Spontaneous in 3 s to 5 s	B
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping	A	•	A
	course		Dive forward 0° to 30° / Keeping course	
Cascade occurs	No	A	No	A
Folding lines used	No	Α	No	A
11. Exiting deep stall (parachutal stall)	Α			
Deep stall achieved	Yes	A		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
Change of course	Changing course less than 45°	A	Changing course less than 45°	A
Cascade occurs	No	A	No	A
12. High angle of attack recovery	A			
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Cascade occurs	No A	A	No	A
13. Recovery from a developed full stall	~	۸	Dive ferward 0° to 20°	•
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
Collapse	No collapse	A	No collapse	A
Cascade occurs (other than collapses)	No	A	No	A
Rocking back	Less than 45° Most lines tight	A	Less than 45° Most lines tight	A A
Line tension	Most lines tight C	A	Most lines tight	A
14. Asymmetric collapse	-			
Small 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 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	А	No	А
Large asymmetric collapse				
Change of course until re-inflation / Maximum dive forward or	90° to 180° / Dive or roll angle	в	180° to 360° / Dive or roll angle 45°	С
roll angle	15° to 45°	2	to 60°	5
Re-inflation behaviour	Spontaneous re-inflation	Α	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	A	No	A
rolding intes used		~	110	~
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°	A
Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	A
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	Α
Cascade occurs	No	А	No	А
Folding lines used	No	А	No	А
Large asymmetric collapse with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or	90° to 180° / Dive or roll angle	С	180° to 360° / Dive or roll angle 45°	С
roll angle	45° to 60°	U	to 60°	U
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	Yes, no turn reversal	С	Yes, no turn reversal	С
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
Folding lines used	No	А	No	А
15. Directional control with a maintained asymmetric	A			
	N	٨	Vee	۸
Able to keep course	Yes	A	Yes	A
180° turn away from the collapsed side possible in 10 s	Yes	A	Yes	A
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	A			
Spin rotation angle after release	Stops spinning in less than 90°	А	Stops spinning in less than 90°	А
Cascade occurs	No	A	No	A
19. B-line stall	A	Λ		~
Change of course before release	Changing course less than 45°	٨	Changing course less than 45°	А
-		A		
Behaviour before release	Remains stable with straight span	A	Remains stable with straight span	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
Cascade occurs	No	А	No	А
20. Big ears	В			
Entry procedure	Standard technique	А	Standard technique	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°	A	Dive forward 0° to 30°	A
21. Big ears in accelerated flight	A			
Entry procedure	Standard technique	А	Standard technique	А
Behaviour during big ears	Stable flight	A	Stable flight	A
Recovery	Spontaneous in 3 s to 5 s	A	Spontaneous in 3 s to 5 s	A
	Dive forward 0° to 30°		Dive forward 0° to 30°	
Dive forward angle on exit		A		A
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	А	Stable flight	A

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

Comments