AIR TURQUOISE SA | PARA-TEST.COM

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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes

Initial response of glider (first 180°)



A Immediate reduction of rate of turn

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

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Manufacturer	Niviuk Gliders / Air Games S.L.	Certification number		PG_1302.2018	
Address	C. Del Ter, 6 – Nave D 17165 La Cellera de Ter Girona Spain	Date of flight test		26. 03. 2018	
Glider model	Artik 5 26	Classification		С	
Serial number	Artik5 5-26	Representative		Tim Rochat	
Trimmer	no	Place of test		Villeneuve	
Folding lines used	no	1 1000 01 1001		VIIIONOUVO	
Test pilot		Thurnheer Claude		Zoller Alain	
Harness		Sup' Air - Evo XC3 M		Gin Gliders - Gingo 2 L	
Harness to risers distance (cm)		43		43	
Distance between risers (cm)		44		46	
	, ,			110	
Total weight in fligh	it (kg)	90		110	
1. Inflation/Take-off		Α			
Rising behaviour		Smooth, easy and constant rising	Α	Smooth, easy and constant rising	Α
Special take off technique	e required	No	Α	No	Α
2. Landing		Α			
Special landing technique	erequired	No	Α	No	Α
3. Speed in straight flight	nt	Α			
Trim speed more than 30	km/h	Yes	Α	Yes	Α
Speed range using the co	ontrols larger than 10 km/h	Yes	Α	Yes	Α
Minimum speed		Less than 25 km/h	Α	Less than 25 km/h	Α
4. Control movement		С			
Max. weight in flight up	to 80 ka				
Symmetric control pressure / travel		not available	0	not available	0
.,					
Max. weight in flight 80					
Symmetric control pressu	re / travel	Increasing / 45 cm to 60 cm	С	not available	0
Max. weight in flight gre	eater than 100 kg				
Symmetric control pressu	re / travel	not available	0	Increasing / 50 cm to 65 cm	С
5. Pitch stability exiting	accelerated flight	Α			
Dive forward angle on exi	t	Dive forward less than 30°	Α	Dive forward less than 30°	Α
Collapse occurs		No	Α	No	Α
6. Pitch stability operati flight	ng controls during accelerated	Α			
Collapse occurs		No	Α	No	Α
7. Roll stability and dam	ping	Α			
Oscillations		Reducing	Α	Reducing	Α
8. Stability in gentle spin		A			_
Tendency to return to stra		Spontaneous exit	Α	Spontaneous exit	Α
	ully developed spiral dive	B	Α	Immorphists as destines of the fit	Α

Immediate reduction of rate of

turn

Tendency to return to straight flight	Spontaneous exit (g force decreasing, rate of turn	Α	Spontaneous exit (g force decreasing, rate of turn decreasing)	Α
Turn angle to recover normal flight	decreasing) Less than 720°, spontaneous recovery	Α	720° to 1 080°, spontaneous recovery	В
10. Symmetric front collapse	B		recovery	
Approximately 30 % chord				
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Dive forward angle on exit Change of course	Dive forward 0° to 30° Keeping course	Α	Dive forward 0° to 30° Keeping course	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
At least 50% chord				
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Spontaneous in 3 s to 5 s	В	Spontaneous in less than 3 s	Α
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	Α	Dive forward 0° to 30° / Keeping course	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
With accelerator				
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Spontaneous in 3 s to 5 s	В	Spontaneous in less than 3 s	Α
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	Α	Dive forward 0° to 30° / Keeping course	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
11. Exiting deep stall (parachutal stall)	Α			
Deep stall achieved	Yes	Α	Yes	Α
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Change of course	Changing course less than 45°	Α	Changing course less than 45°	Α
Cascade occurs	No	Α	No	Α
12. High angle of attack recovery	A			
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Cascade occurs	No	Α	No	Α
13. Recovery from a developed full stall	A		D	
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°	A	Less than 45°	A
Line tension 14. Asymmetric collapse	Most lines tight B	Α	Most lines tight	Α
Small any matric callenge				
Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or	Less than 90° / Dive or roll angle	Α	Less than 90° / Dive or roll angle 0°	Α
roll angle	15° to 45°		to 15°	
Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	Α
Total change of course	Less than 360°	Α	Less than 360°	A
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	

Change of course until re-inflation / Maximum dive forward or roll angle	90° to 180° / Dive or roll angle 15° to 45°	В	Less than 90° / Dive or roll angle 15° to 45°	Α
Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
Total change of course	Less than 360°	Α	Less than 360°	Α
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
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°	Α	Less than 90° / Dive or roll angle 0° to 15°	Α
Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
Total change of course	Less than 360°	Α	Less than 360°	Α
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
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°	Α	90° to 180° / Dive or roll angle 15° to 45°	В
Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
Total change of course	Less than 360°	Α	Less than 360°	Α
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a	Α	No (or only a small number of collapsed cells with a spontaneous	Α
	spontaneous reinflation)		reinflation)	
Twist occurs		Α	reinflation) No	Α
Twist occurs Cascade occurs	spontaneous reinflation)	A A	,	A A
	spontaneous reinflation) No		No	
Cascade occurs	spontaneous reinflation) No No		No No	
Cascade occurs Folding lines used 15. Directional control with a maintained asymmetric	spontaneous reinflation) No No No		No No	
Cascade occurs Folding lines used 15. Directional control with a maintained asymmetric collapse	spontaneous reinflation) No No No A		No No No	A
Cascade occurs Folding lines used 15. Directional control with a maintained asymmetric collapse Able to keep course	spontaneous reinflation) No No No A Yes	A	No No No	A
Cascade occurs Folding lines used 15. Directional control with a maintained asymmetric collapse Able to keep course 180° turn away from the collapsed side possible in 10 s	spontaneous reinflation) No No No A Yes Yes More than 50 % of the	A A A	No No Yes Yes More than 50 % of the symmetric	A A A
Cascade occurs Folding lines used 15. Directional control with a maintained asymmetric collapse Able to keep course 180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin	spontaneous reinflation) No No No A Yes Yes More than 50 % of the symmetric control travel	A A A	No No Yes Yes More than 50 % of the symmetric	A A A
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Cascade occurs Folding lines used 15. Directional control with a maintained asymmetric collapse Able to keep course 180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin 16. Trim speed spin tendency Spin occurs 17. Low speed spin tendency Spin occurs 18. Recovery from a developed spin Spin rotation angle after release Cascade occurs	spontaneous reinflation) No No No A Yes Yes More than 50 % of the symmetric control travel A No A No B Stops spinning in 90° to 180° No	A A A A A	No No Yes Yes More than 50 % of the symmetric control travel No No	A A A A
Cascade occurs Folding lines used 15. Directional control with a maintained asymmetric collapse Able to keep course 180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin 16. Trim speed spin tendency Spin occurs 17. Low speed spin tendency Spin occurs 18. Recovery from a developed spin Spin rotation angle after release Cascade occurs 19. B-line stall	spontaneous reinflation) No No No A Yes Yes More than 50 % of the symmetric control travel A No A No B Stops spinning in 90° to 180° No A	A A A A B	No No No Yes Yes Yes More than 50 % of the symmetric control travel No No Stops spinning in 90° to 180° No	A A A A B A A
Cascade occurs Folding lines used 15. Directional control with a maintained asymmetric collapse Able to keep course 180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin 16. Trim speed spin tendency Spin occurs 17. Low speed spin tendency Spin occurs 18. Recovery from a developed spin Spin rotation angle after release Cascade occurs 19. B-line stall Change of course before release	spontaneous reinflation) No No No A Yes Yes More than 50 % of the symmetric control travel A No A No B Stops spinning in 90° to 180° No A Changing course less than 45°	A A A A A A	No No Yes Yes Yes More than 50 % of the symmetric control travel No No Stops spinning in 90° to 180° No Changing course less than 45°	A A A A A A A A
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21. Big ears in accelerated flight	В			
Entry procedure	Dedicated controls	Α	Dedicated controls	Α
Behaviour during big ears	Stable flight	Α	Stable flight	Α
Recovery	Recovery through pilot action in less than a further 3 s	В	Recovery through pilot action in less than a further 3 s	В
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	Α	Stable flight	Α
22. Alternative means of directional control	A			
180° turn achievable in 20 s	Yes	Α	Yes	Α
Stall or spin occurs	No	Α	No	Α
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