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°)



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

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Manufacturer	Niviuk Gliders / Air Games S.L.	Certification number		PG_1300.2018	
Address	C. Del Ter, 6 – Nave D 17165 La Cellera de Ter Girona Spain	Date of flight test		13. 02. 2018	
Glider model	Artik 5 24	Classification		С	
Serial number	Artik5 4-24	Representative		None	
Trimmer	no	Place of test		Villeneuve	
Folding lines used	no				
Test pilot		Thurnheer Claude		Zoller Alain	
Harness		Flugsau - XX-Lite		Advance - Success 4 L	
Harness to risers distance (cm)		40		44	
Distance between r	isers (cm)	40		44	
Total weight in fligh	, ,	75		95	
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	Α	No	Α
2. Landing		A			
Special landing technique	· · ·	No	Α	No	Α
3. Speed in straight fligh Trim speed more than 30		B Yes	Α	Yes	۸
Speed range using the co		Yes	A	Yes	A A
Minimum speed	national larger and it is tall.	25 km/h to 30 km/h	В	Less than 25 km/h	Α
4. Control movement		С			
Mary wainshi in flinki wa	40 00 km				
Max. weight in flight up to	•	Ingranging / 40 cm to EE cm	С	not available	0
Symmetric control pressur	e / traver	Increasing / 40 cm to 55 cm	C	not available	U
Max. weight in flight 80 k	kg to 100 kg				
Symmetric control pressur	re / travel	not available	0	Increasing / 45 cm to 60 cm	С
Max. weight in flight gre	ater than 100 kg				
Symmetric control pressur	<u> </u>	not available	0	not available	0
5. Pitch stability exiting accelerated flight		A			
Dive forward angle on exit		Dive forward less than 30°	Α	Dive forward less than 30°	Α
Collapse occurs		No	Α	No	Α
flight	ng controls during accelerated	A			
Collapse occurs		No	Α	No	Α
7. Roll stability and dam	ping	A Rodusing	٨	Paduaina	٨
Oscillations 8 Stability in gentle spir	ale	Reducing A	Α	Reducing	Α
Stability in gentle spirTendency to return to strain		Spontaneous exit	Α	Spontaneous exit	Α
	lly developed spiral dive	B		Opontarioous oxit	^
u					

B Immediate reduction of rate of turn

No immediate reaction

Tandanas ta satura ta circiata dista	Chambanas variety for 5	,	On anton a sure with far fr	
Tendency to return to straight flight	Spontaneous exit (g force decreasing, rate of turn decreasing)	Α	Spontaneous exit (g force decreasing, rate of turn decreasing)	Α
Turn angle to recover normal flight	720° to 1 080°, spontaneous recovery	В	Less than 720°, spontaneous recovery	Α
10. Symmetric front collapse	В			
Approximately 30 % 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 3 s to 5 s	В
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 3 s to 5 s	В
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 less than 3 s	Α	Spontaneous in 3 s to 5 s	В
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)	A			
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			
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Collapse	No collapse	Α	No collapse	Α
Cascade occurs (other than collapses)	No	Α.	No	A
Rocking back	Less than 45°	A	Less than 45°	A
Line tension 14. Asymmetric collapse	Most lines tight C	Α	Most lines tight	Α
•				
Small asymmetric collapse	Long them COS / Direct		Lagarthan OCS / Division - 11 / CCS	
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	A	Spontaneous re-inflation	A
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)	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

Change of course until re-inflation / Maximum dive forward or roll angle	90° to 180° / Dive or roll angle 15° to 45°	В	90° to 180° / Dive or roll angle 15° to 45°	В
Re-inflation behaviour	Inflates in less than 3 s from start of pilot action	С	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	Α	No (or only a small number of	Α
Collapse on the opposite side decurs	collapsed cells with a spontaneous reinflation)	,,	collapsed cells with a spontaneous reinflation)	^
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
Large commetric colleges with fully activated accelerator				
Large asymmetric collapse with fully activated accelerator Change of course until re-inflation / Maximum dive forward or	90° to 180° / Dive or roll angle	В	90° to 180° / Dive or roll angle 45°	С
roll angle	15° to 45°	ь	to 60°	C
Re-inflation behaviour	Inflates in less than 3 s from start of pilot action	С	Inflates in less than 3 s from start of pilot action	С
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	
15. Directional control with a maintained asymmetric collapse	Α			
Able to keep course	Yes	Α		Α
180° turn away from the collapsed side possible in 10 s	Yes	Α	Yes	Α
Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	Α	More than 50 % of the symmetric control travel	Α
16. Trim speed spin tendency	A	^	Na	^
Spin occurs 17. Low speed spin tendency	No A	Α	No	Α
Spin occurs	No	Α	No	Α
18. Recovery from a developed spin	В		110	A
Spin rotation angle after release	_		Otana	_
	Stops spinning in 90° to 180°	В	Stops spinning in 90° to 180°	В
Cascade occurs	Stops spinning in 90° to 180° No	B A	Stops spinning in 90° to 180° No	B A
•				
Cascade occurs	No			
Cascade occurs 19. B-line stall	No A	A	No	A
Cascade occurs 19. B-line stall Change of course before release	No A Changing course less than 45° Remains stable with straight	A	No Changing course less than 45°	A
Cascade occurs 19. B-line stall Change of course before release Behaviour before release	No A Changing course less than 45° Remains stable with straight span	A A A	No Changing course less than 45° Remains stable with straight span	A A A
Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery	No A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s	A A A	No Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s	A A A
Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit	No A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°	A A A	No Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°	A A A A
Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs	No A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No	A A A	No Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°	A A A A
Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears Entry procedure Behaviour during big ears	No A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No B Dedicated controls Stable flight	A A A A	No Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No Dedicated controls Stable flight	A A A A A
Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears Entry procedure	No A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No B Dedicated controls	A A A A A	No Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No Dedicated controls	A A A A A

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	Spontaneous in 3 s to 5 s	Α	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	Α			
180° turn achievable in 20 s	Yes	Α	Yes	Α
180° turn achievable in 20 s Stall or spin occurs	Yes No	A A	Yes No	A A
Stall or spin occurs 23. Any other flight procedure and/or configuration	No			
Stall or spin occurs 23. Any other flight procedure and/or configuration described in the user's manual	No 0	A	No	A
Stall or spin occurs 23. Any other flight procedure and/or configuration described in the user's manual Procedure works as described	No O not available	A 0	No not available	A 0

24. Comments of test pilot

Comments