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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



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

g toot i op		o			
Manufacturer Niviuk Gliders / Air Games S.L.		Certification number	PG_1750.2020		
Address	C. Del Ter, 6 Nave D 17165 La Cellera de Ter Girona Spain	Flight test	2	7.11.2020	
Glider model	Artik 6 27	Classification	C	;	
Serial number	ARTIK627V1	Representative	Ν	lone	
Trimmer	no	Place of test	\	/illeneuve	
Folding lines used	no	1 1000 01 1001	Ī	oncave	
Test pilot		Alexandre Jofresa	A	slain Zoller	
Harness		Supair - Evo XC 3 M	A	Advance - Success 4 L	
Harness to risers di	istance (cm)	44	44		
Distance between risers (cm)		48	4	48	
Total weight in fligh	` '	100		122	
rotal weight in mgh	it (kg)	100	'	22	
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		Α			
Special landing technique required		No	Α	No	Α
3. Speed in straight flight		В			
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	Α	25 km/h to 30 km/h	В
4. Control movement	00 km	A			
Max. weight in flight up t		not available	0	not available	0
Symmetric control pressur		not available	0	not available	U
Max. weight in flight 80 kg to 100 kg		Increasing / greater than 60 cm	Α	not available	0
Symmetric control pressure / travel Max weight in flight greater than 100 kg		increasing / greater than 00 cm	^	not available	U
Max. weight in flight greater than 100 kg Symmetric control pressure / travel		not available	0	Increasing / greater than 65 cm	Α
5. Pitch stability exiting		A		more dening a greater trial recommend	
Dive forward angle on exit		Dive forward less than 30°	Α	Dive forward less than 30°	Α
Collapse occurs		No	Α	No	Α
6. Pitch stability operating	ng controls during accelerated	Α			
Collapse occurs		No	Α	No	Α
7. Roll stability and dam	ping	A			
Oscillations		Reducing	Α	Reducing	Α
8. Stability in gentle spir	als	Α			
Tendency to return to straight flight		Spontaneous exit	Α	Spontaneous exit	Α
9. Behaviour exiting a fully developed spiral dive		A			
Initial response of glider (first 180°)		Immediate reduction of rate of turn	A	Immediate reduction of rate of turn	Α
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	Α	Less than 720°, spontaneous recovery	Α
10. Symmetric front collapse		С			

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 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 greater than 45°	С	Rocking back greater than 45°	С
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	
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	Α			
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	В			
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 30° to 60°	В
Collapse	No collapse	Α	No collapse	Α
Collapse Cascade occurs (other than collapses)	No collapse No	A A	No collapse No	A A
Collapse Cascade occurs (other than collapses) Rocking back	No collapse No Less than 45°	A A A	No collapse No Less than 45°	A A A
Collapse Cascade occurs (other than collapses) Rocking back Line tension	No collapse No Less than 45° Most lines tight	A A A	No collapse No	A A
Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse	No collapse No Less than 45°	A A A	No collapse No Less than 45°	A A A
Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse	No collapse No Less than 45° Most lines tight B	A A A	No collapse No Less than 45° Most lines tight	A A A
Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle	No collapse No Less than 45° Most lines tight B Less than 90° / Dive or roll angle 0° to 15°	A A A	No collapse No Less than 45° Most lines tight Less than 90° / Dive or roll angle 0° to 15°	A A A
Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour	No collapse No Less than 45° Most lines tight B Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation	A A A	No collapse No Less than 45° Most lines tight Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation	A A A A
Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course	No collapse No Less than 45° Most lines tight B Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360°	A A A A A	No collapse No Less than 45° Most lines tight Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360°	A A A A
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Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs Folding lines used	No collapse No Less than 45° Most lines tight B Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No	A A A A A A A A	No collapse No Less than 45° Most lines tight Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No	A A A A A
Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs Folding lines used Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or	No collapse No Less than 45° Most lines tight B Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No No 90° to 180° / Dive or roll angle	A A A A A A A	No Less than 45° Most lines tight Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No Less than 90° / Dive or roll angle	A A A A A A
Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs Folding lines used Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle	No collapse No Less than 45° Most lines tight B Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No No 90° to 180° / Dive or roll angle 15° to 45°	A A A A A A B	No collapse No Less than 45° Most lines tight Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No Less than 90° / Dive or roll angle 15° to 45°	A A A A A A A A
Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs Folding lines used Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour	No collapse No Less than 45° Most lines tight B Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No No Spontaneous re-inflation Spontaneous reinflation	A A A A A A A A A A A A A A A A A A A	No collapse No Less than 45° Most lines tight Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No So Spontaneous re-inflation	A A A A A A A A
Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs Folding lines used Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course	No collapse No Less than 45° Most lines tight B Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No	A A A A A A A A A A A A A A A A A A A	No collapse No Less than 45° Most lines tight Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No So Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous	A A A A A A A A A A A A A A A A A A A
Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs Folding lines used Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs	No collapse No Less than 45° Most lines tight B Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No 90° to 180° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation)	A A A A A A A A A A A A A A A A A A A	No collapse No Less than 45° Most lines tight Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation)	A A A A A A A A A A A A A A A A A A A
Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs Folding lines used Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Twist occurs	No collapse No Less than 45° Most lines tight B Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No On No	A A A A A A A A A A A A A A A A A A A	No collapse No Less than 45° Most lines tight Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No	A A A A A A A A A A A A A A A A A A A

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 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	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	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	
15. Directional control with a maintained asymmetric	Α			
collapse	Van	۸	Vaa	^
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	Α	More than 50 % of the symmetric control travel	Α
16. Trim speed spin tendency	A			
Spin occurs	No	Α	No	Α
17. Low speed spin tendency	A			
Spin occurs	No	Α	No	Α
18. Recovery from a developed spin	Α			
Spin rotation angle after release	Stops spinning in less than 90°	Α	Stops spinning in less than 90°	Α
Cascade occurs	No	Α	No	Α
19. B-line stall	A			
Change of course before release	Changing course less than 45°	Α	Changing course less than 45°	Α
Behaviour before release	Remains stable with straight span	Α	Remains stable with straight span	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
Cascade occurs	No	Α	No	Α
20. Big ears	Α			
Entry procedure				
Entry procedure	Dedicated controls	Α	Dedicated controls	Α
Behaviour during big ears	Dedicated controls Stable flight	A A	Dedicated controls Stable flight	A A
• •			Stable flight Spontaneous in less than 3 s	
Behaviour during big ears Recovery Dive forward angle on exit	Stable flight	Α	Stable flight	Α
Behaviour during big ears Recovery Dive forward angle on exit 21. Big ears in accelerated flight	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° B	A A	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°	A A
Behaviour during big ears Recovery Dive forward angle on exit	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° B Dedicated controls	A A	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Dedicated controls	A A
Behaviour during big ears Recovery Dive forward angle on exit 21. Big ears in accelerated flight	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° B	A A A	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°	A A A
Behaviour during big ears Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° B Dedicated controls	A A A	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Dedicated controls	A A A
Behaviour during big ears Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure Behaviour during big ears	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° B Dedicated controls Stable flight	A A A	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Dedicated controls Stable flight Recovery through pilot action in	A A A
Behaviour during big ears Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° B Dedicated controls Stable flight Spontaneous in less than 3 s	A A A A A	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Dedicated controls Stable flight Recovery through pilot action in less than a further 3 s	A A A A B
Behaviour during big ears Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Behaviour immediately after releasing the accelerator while	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° B Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°	A A A A A	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Dedicated controls Stable flight Recovery through pilot action in less than a further 3 s Dive forward 0° to 30°	A A A B A
Behaviour during big ears Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° B Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight	A A A A A	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Dedicated controls Stable flight Recovery through pilot action in less than a further 3 s Dive forward 0° to 30°	A A A B A
Behaviour during big ears Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Behaviour immediately after releasing the accelerator while maintaining big ears 22. Alternative means of directional control	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° B Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight	A A A A A	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Dedicated controls Stable flight Recovery through pilot action in less than a further 3 s Dive forward 0° to 30° Stable flight	A A A B A A
Behaviour during big ears Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Behaviour immediately after releasing the accelerator while maintaining big ears 22. Alternative means of directional control 180° turn achievable in 20 s	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° B Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight A Yes	A A A A A A	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Dedicated controls Stable flight Recovery through pilot action in less than a further 3 s Dive forward 0° to 30° Stable flight Yes	A A A B A A
Behaviour during big ears Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Behaviour immediately after releasing the accelerator while maintaining big ears 22. Alternative means of directional control 180° turn achievable in 20 s Stall or spin occurs 23. Any other flight procedure and/or configuration	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° B Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight A Yes No	A A A A A A	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Dedicated controls Stable flight Recovery through pilot action in less than a further 3 s Dive forward 0° to 30° Stable flight Yes	A A A B A A
Behaviour during big ears Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Behaviour immediately after releasing the accelerator while maintaining big ears 22. Alternative means of directional control 180° turn achievable in 20 s Stall or spin occurs 23. Any other flight procedure and/or configuration described in the user's manual	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° B Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight A Yes No 0	A A A A A A A	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Dedicated controls Stable flight Recovery through pilot action in less than a further 3 s Dive forward 0° to 30° Stable flight Yes No	A A A B A A A
Behaviour during big ears Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Behaviour immediately after releasing the accelerator while maintaining big ears 22. Alternative means of directional control 180° turn achievable in 20 s Stall or spin occurs 23. Any other flight procedure and/or configuration described in the user's manual Procedure works as described	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° B Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight A Yes No 0 not available	A A A A A A A A	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Dedicated controls Stable flight Recovery through pilot action in less than a further 3 s Dive forward 0° to 30° Stable flight Yes No not available	A A A A A A O

24. Comments of test pilot	