## 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+A1:2021\* & NfL 2-565-20

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Manufacturer Niviuk Gliders / Air Games S.L.		Certification number		PG_2120.2023		
Address	C. Del Ter, 6 Nave D 17165 La Cellera de Ter Girona Spain	Flight test	2	7.01.2023		
Glider model	PEAK 6 21	Classification				
Serial number PEAK621		Representative		None		
Trimmer	no	Place of test		Villeneuve		
Folding lines used	yes		villerieuve			
Test pilot		Philippe Dupont	(	Claude Thurnheer		
Harness		••••		liviuk Gliders - Konvers M		
Harness to risers distance (cm)		41		44		
Distance between risers (cm)		40		44		
Total weight in flight (kg)		70	85			
1. Inflation/Take-off		С				
Rising behaviour		Overshoots, shall be slowed down to avoid a front collapse	С	Overshoots, shall be slowed down to avoid a front collapse	С	
Special take off technique	erequired	No	Α	No	Α	
2. Landing		A				
Special landing technique	· ·	No	Α	No	Α	
3. Speed in straight fligh		В				
Trim speed more than 30 km/h		Yes	Α	Yes	Α	
Speed range using the controls larger than 10 km/h		Yes	Α	Yes	Α	
Minimum speed		25 km/h to 30 km/h	В	25 km/h to 30 km/h	В	
4. Control movement		С				
Max. weight in flight up	=		_		_	
Symmetric control pressure / travel		Increasing / 40 cm to 55 cm	С	not available	0	
Max. weight in flight 80 kg to 100 kg		nat available	^	In and a sing / 45 and to 60 and	_	
Symmetric control pressure / travel  Max. weight in flight greater than 100 kg		not available	0	Increasing / 45 cm to 60 cm	С	
	=	not available	0	not available	0	
Symmetric control pressu		A	U	not available	U	
5. Pitch stability exiting accelerated flight		Dive forward less than 30°	Α	Dive forward less than 30°	Α	
Dive forward angle on exit  Collapse occurs		No	Α	No	A	
	ng controls during accelerated	A	, ,		, ,	
Collapse occurs		No	Α	No	Α	
7. Roll stability and dam	ping	A				
Oscillations		Reducing	Α	Reducing	Α	
8. Stability in gentle spir	rals	Α				
Tendency to return to stra	night flight	Spontaneous exit	Α	Spontaneous exit	Α	
9. Behaviour exiting a fu	ully developed spiral dive	В				
Initial response of glider (first 180°)		Immediate reduction of rate of turn		No immediate reaction	В	
Tendency to return to straight flight		Spontaneous exit (g force A decreasing, rate of turn decreasing)		Spontaneous exit (g force decreasing, rate of turn decreasing)	Α	
Turn angle to recover normal flight		Less than 720°, spontaneous recovery		Less than 720°, spontaneous recovery	Α	
10. Symmetric front coll	apse	D				

Approximately 30 % chord				
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Recovery through pilot action in less than a further 3 s	D	Spontaneous in less than 3 s	Α
Dive forward angle on exit Change of course	Dive forward 30° to 60° Entering a turn of less than 90°	В	Dive forward 0° to 30° Keeping course	Α
Cascade occurs	No	Α	No	Α
Folding lines used	Yes	D	No	Α
At least 50% chord				
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Recovery through pilot action in less than a further 3 s	D	Recovery through pilot action in less than a further 3 s	D
Dive forward angle on exit / Change of course	Dive forward 30° to 60° / Keeping course	В	Dive forward 0° to 30° / Keeping course	Α
Cascade occurs	No	Α	No	Α
Folding lines used	Yes	D	Yes	D
With accelerator				
Entry	Rocking back greater than 45°	С	Rocking back greater than 45°	С
Recovery	Recovery through pilot action in less than a further 3 s	D	Recovery through pilot action in less than a further 3 s	D
Dive forward angle on exit / Change of course	Dive forward 30° to 60° / Keeping course	В	Dive forward 0° to 30° / Keeping course	Α
Cascade occurs	No	Α	No	Α
Folding lines used	Yes	D	Yes	D
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	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
Cascade occurs (other than collapses)	No	Α	No	Α
Rocking back	Less than 45°	Α	Less than 45°	Α
Line tension	Most lines tight	Α	Most lines tight	Α
14. Asymmetric collapse	D		-	
Small asymmetric collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 0° to 15°	Α	Less than 90° / Dive or roll angle 15° to 45°	Α
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	Yes	D	Yes	D
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	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	Yes	D	Yes	D
Small 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	Less than 90° / Dive or roll angle 15° to 45°	Α
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	Yes	D	Yes	D
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	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	Yes	D	Yes	D
15. Directional control with a maintained asymmetric collapse	Α			
Able to keep course	Yes	Α	Yes	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	Α	More than 50 % of the symmetric	Α
	control travel		control travel	
16. Trim speed spin tendency	A		control travel	
16. Trim speed spin tendency Spin occurs		A	No No	Α
	Α	Α		Α
Spin occurs	A No	A		A
Spin occurs  17. Low speed spin tendency	A No A		No	
Spin occurs  17. Low speed spin tendency Spin occurs	A No A No		No	
Spin occurs  17. Low speed spin tendency Spin occurs  18. Recovery from a developed spin	A No A No B	A B	No No	Α
Spin occurs  17. Low speed spin tendency Spin occurs  18. Recovery from a developed spin Spin rotation angle after release	A No A No B Stops spinning in 90° to 180°	A B	No  Stops spinning in 90° to 180°	A B
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	A No A No B Stops spinning in 90° to 180° No	A B	No  Stops spinning in 90° to 180°	A B
Spin occurs  17. Low speed spin tendency Spin occurs  18. Recovery from a developed spin Spin rotation angle after release Cascade occurs	A No A No B Stops spinning in 90° to 180° No 0	A B A	No No Stops spinning in 90° to 180° No	A B A
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 Behaviour before release	A No A No B Stops spinning in 90° to 180° No 0 not available	A B A	No  No Stops spinning in 90° to 180° No not available	A B A
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 Behaviour before release Recovery	A No A No B Stops spinning in 90° to 180° No 0 not available not available	A B A	No  Stops spinning in 90° to 180°  No  not available not available	A B A O O
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 Behaviour before release Recovery Dive forward angle on exit	A No A No B Stops spinning in 90° to 180° No 0 not available not available not available not available	A B A 0 0	No  Stops spinning in 90° to 180° No  not available not available not available not available	A B A O O O O
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 Behaviour before release Recovery Dive forward angle on exit Cascade occurs	A No A No B Stops spinning in 90° to 180° No 0 not available not available not available	A B A 0 0 0	No  No Stops spinning in 90° to 180° No not available not available not available	A B A O O O O O
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 Behaviour before release Recovery Dive forward angle on exit Cascade occurs  20. Big ears	A No A No B Stops spinning in 90° to 180° No 0 not available not available not available not available not available not available	A B A 0 0 0 0 0	No  Stops spinning in 90° to 180°  No  not available not available not available not available not available not available	A B A 0 0 0 0 0
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 Behaviour before release Recovery Dive forward angle on exit Cascade occurs  20. Big ears Entry procedure	A No A No B Stops spinning in 90° to 180° No 0 not available not available not available not available not available standard technique	A B A 0 0 0 0 A	No  Stops spinning in 90° to 180° No  not available not available not available not available not available Standard technique	A B A O O O O O O A
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 Behaviour before release Recovery Dive forward angle on exit Cascade occurs  20. Big ears Entry procedure Behaviour during big ears	A No A No B Stops spinning in 90° to 180° No 0 not available not available not available not available standard technique Stable flight	A B A 0 0 0 0 A A	No  Stops spinning in 90° to 180° No  not available not available not available not available standard technique Stable flight	A B A 0 0 0 0 A A
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 Behaviour before release Recovery Dive forward angle on exit Cascade occurs  20. Big ears Entry procedure Behaviour during big ears Recovery	A No A No B Stops spinning in 90° to 180° No 0 not available not available not available not available stabled standard technique Stable flight Spontaneous in less than 3 s	A B A 0 0 0 A A A	No  Stops spinning in 90° to 180° No  not available not available not available not available standard technique Stable flight Spontaneous in less than 3 s	A B A 0 0 0 0 A A A
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 Behaviour before release Recovery Dive forward angle on exit Cascade occurs  20. Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit	A No A No B Stops spinning in 90° to 180° No 0 not available not available not available not available standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°	A B A 0 0 0 0 A A	No  Stops spinning in 90° to 180° No  not available not available not available not available standard technique Stable flight	A B A 0 0 0 0 A A
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 Behaviour before release Recovery Dive forward angle on exit Cascade occurs  20. Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big ears in accelerated flight	A No A No B Stops spinning in 90° to 180° No 0 not available not available not available not available standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A	A B A 0 0 0 A A A	No  Stops spinning in 90° to 180° No  not available not available not available not available standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°	A B A 0 0 0 0 A A A
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 Behaviour before release Recovery Dive forward angle on exit Cascade occurs  20. Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit  21. Big ears in accelerated flight Entry procedure	A No A No B Stops spinning in 90° to 180° No 0 not available not available not available not available stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Standard technique	A B A 0 0 0 0 A A A A	No  Stops spinning in 90° to 180° No  not available not available not available not available standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°  Standard technique	A B A O O O O O A A A A A
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 Behaviour before release Recovery Dive forward angle on exit Cascade occurs  20. Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit  21. Big ears in accelerated flight Entry procedure Behaviour during big ears	A No A No B Stops spinning in 90° to 180° No 0 not available not available not available not available stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Standard technique Stable flight	A B A O O O O O A A A A A A A	No  Stops spinning in 90° to 180° No  not available not available not available not available standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°  Standard technique Stable flight	A B A O O O O O A A A A A A
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 Behaviour before release Recovery Dive forward angle on exit Cascade occurs  20. Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit  21. Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery	A No A No B Stops spinning in 90° to 180° No 0 not available not available not available not available standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Standard technique Stable flight Spontaneous in less than 3 s	A B A O O O O O A A A A A A A A	No  Stops spinning in 90° to 180° No  not available not available not available not available standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°  Standard technique Stable flight Spontaneous in less than 3 s	A B A O O O O O A A A A A A A A A
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 Behaviour before release Recovery Dive forward angle on exit Cascade occurs  20. Big ears Entry procedure 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	A No A No B Stops spinning in 90° to 180° No 0 not available not available not available not available standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°	A B A O O O O O A A A A A A A A A A A A	No  Stops spinning in 90° to 180° No  not available not available not available not available standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°  Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°	A B A O O O O O A A A A A A A A A A A A
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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 Behaviour before release Recovery Dive forward angle on exit Cascade occurs  20. Big ears Entry procedure 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 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	A No A No B Stops spinning in 90° to 180° No 0 not available not available not available not available not available stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight	A B A O O O O O A A A A A A A A A A A A	No  Stops spinning in 90° to 180° No  not available not available not available not available stable flight Spontaneous in less than 3 s Dive forward 0° to 30°  Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°	A B A O O O O O A A A A A A A A A A A A
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 Behaviour before release Recovery Dive forward angle on exit Cascade occurs  20. Big ears Entry procedure 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	A No A No B Stops spinning in 90° to 180° No 0 not available not available not available not available not available standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight	A B A O O O O O A A A A A A A A A A A A	No  Stops spinning in 90° to 180° No  not available not available not available not available standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°  Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°	A B A O O O O O A A A A A A A A A A A A

23. Any other flight procedure and/or configuration described in the user's manual	Α		
Procedure works as described	Yes	A Yes	Α
Procedure suitable for novice pilots	Yes	A Yes	Α
Cascade occurs	No	A No	Α

24. Comments of test pilot

Big ears by B3

Big ears by B3