## AIR TURQUOISE SA | PARA-TEST.COM

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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



## Flight test report: EN 926-2:2013 & NfL 2-565-20

Manufacturer Niviuk Gliders / Air Games S.L.		Certification number	PG_1857.2021			
Address C. Del Ter, 6 Nave D 17165 La Cellera de Ter Girona Spain		Flight test	1	6.06.2021		
Glider model Kode P 18		Classification	В			
Serial number KODE181		Representative	Ν	None		
Trimmer		Place of test		/illeneuve		
	no	Trace of test	v	lieneuve		
Folding lines used	no					
Test pilot		Light pilot under Air Turquoise supervision	Claude Thurnheer			
Harness		Flugsau - XX-Lite	Δ	Advance - Success 4 M		
		40		44		
Harness to risers distance (cm) Distance between risers (cm)		40		44		
1. Inflation/Take-off		Α				
Rising behaviour		Smooth, easy and constant rising	А	Smooth, easy and constant rising	А	
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	В				
Trim speed more than 30		Yes	А	Yes	А	
Speed range using the con	ntrols larger than 10 km/h	Yes	А	Yes	А	
Minimum speed		Less than 25 km/h	А	25 km/h to 30 km/h	В	
4. Control movement		Α				
Max. weight in flight up f	to 80 kg					
Symmetric control pressur	re / travel	Increasing / greater than 55 cm	А	not available	0	
Max. weight in flight 80 k	kg to 100 kg					
Symmetric control pressur	re / travel	not available	0	Increasing / greater than 60 cm	А	
Max. weight in flight grea	ater than 100 kg					
Symmetric control pressur	re / travel	not available	0	not available	0	
5. Pitch stability exiting	accelerated flight	Α				
Dive forward angle on exit		Dive forward less than 30°	А	Dive forward less than 30°	А	
Collapse occurs		No	А	No	Α	
6. Pitch stability operating controls during accelerated flight		A		Na	•	
Collapse occurs	nin.n	No	A	No	A	
7. Roll stability and dam Oscillations	hind	A Reducing	٨	Reducing	٨	
8. Stability in gentle spir	ale	Reducing A	A	Reducing	A	
Tendency to return to stra		A Spontaneous exit	А	Spontaneous exit	А	
9. Behaviour exiting a fu	с с	A	77		А	
Initial response of glider (f		Immediate reduction of rate of turn	А	Immediate reduction of rate of turn	А	
Tendency to return to stra		Spontaneous exit (g force	A	Spontaneous exit (g force	A	
i shadhey to rotann to stra		decreasing, rate of turn decreasing)		decreasing, rate of turn decreasing)	~	
Turn angle to recover normal flight		Less than 720°, spontaneous recovery	A	Less than 720°, spontaneous recovery	A	
10. Symmetric front colla	apse	Α				

Approximately 30 % chord				
Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Dive forward angle on exit Change of course	Dive forward 0° to 30° Keeping	A	Dive forward 0° to 30° Keeping	A
Dive forward angle on exit onlange of oddroe	course	~	course	
Cascade occurs	No	А	No	А
Folding lines used	No	А	No	А
At least 50% chord				
Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
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
With accelerator				
Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
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
11. Exiting deep stall (parachutal stall)	Α			
Deep stall achieved	Yes	А	Yes	А
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
Change of course	Changing course less than 45°	А	Changing course less than $45^{\circ}$	А
Cascade occurs	No	А	No	А
12. High angle of attack recovery	Α			
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Cascade occurs	No	А	No	А
13. Recovery from a developed full stall	В			
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 30° to 60°	В
Dive forward angle on exit Collapse	Dive forward 0° to 30° No collapse	A A	No collapse	А
Dive forward angle on exit Collapse Cascade occurs (other than collapses)	Dive forward 0° to 30° No collapse No		No collapse No	A A
Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back	Dive forward 0° to 30° No collapse No Less than 45°	A A A	No collapse No Less than 45°	A A A
Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension	Dive forward 0° to 30° No collapse No Less than 45° Most lines tight	A A	No collapse No	A A
Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse	Dive forward 0° to 30° No collapse No Less than 45°	A A A	No collapse No Less than 45°	A A A
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<ul> <li>Dive forward angle on exit</li> <li>Collapse</li> <li>Cascade occurs (other than collapses)</li> <li>Rocking back</li> <li>Line tension</li> <li>14. Asymmetric collapse</li> <li>Small asymmetric collapse</li> <li>Change of course until re-inflation / Maximum dive forward or roll angle</li> <li>Re-inflation behaviour</li> <li>Total change of course</li> <li>Collapse on the opposite side occurs</li> <li>Twist occurs</li> <li>Cascade occurs</li> <li>Folding lines used</li> <li>Large asymmetric collapse</li> <li>Change of course until re-inflation / Maximum dive forward or roll angle</li> <li>Re-inflation behaviour</li> <li>Total change of course</li> <li>Collapse on the opposite side occurs</li> <li>Folding lines used</li> <li>Large asymmetric collapse</li> <li>Change of course until re-inflation / Maximum dive forward or roll angle</li> <li>Re-inflation behaviour</li> <li>Total change of course</li> </ul>	<ul> <li>Dive forward 0° to 30°</li> <li>No collapse</li> <li>No</li> <li>Less than 45°</li> <li>Most lines tight</li> <li>A</li> <li>Less than 90° / Dive or roll angle 0° to 15°</li> <li>Spontaneous re-inflation</li> <li>Less than 360°</li> <li>No (or only a small number of collapsed cells with a spontaneous reinflation)</li> <li>No</li> <li>No (or only a small number of collapsed cells with a spontaneous</li> </ul>	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 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	A A A A A A A A A A A A A A A A A
Dive forward angle on exit 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 Change of course until re-inflation / Maximum dive forward or roll angle	<ul> <li>Dive forward 0° to 30°</li> <li>No collapse</li> <li>No</li> <li>Less than 45°</li> <li>Most lines tight</li> <li>A</li> <li>Less than 90° / Dive or roll angle 0° to 15°</li> <li>Spontaneous re-inflation</li> <li>Less than 360°</li> <li>No (or only a small number of collapsed cells with a spontaneous reinflation)</li> <li>No</li> <li>No</li> <li>No</li> <li>No</li> <li>Less than 90° / Dive or roll angle 0° to 15°</li> <li>Spontaneous re-inflation</li> <li>Less than 360°</li> <li>No (or only a small number of collapsed cells with a spontaneous reinflation)</li> <li>No</li> <li>No (or only a small number of collapsed cells with a spontaneous reinflation)</li> </ul>	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
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Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 0° to 15°	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°	Α	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 with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 0° to 15°	A	Less than 90° / Dive or roll angle $15^\circ$ to $45^\circ$	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
15. Directional control with a maintained asymmetric	Α			
collapse				
Able to keep course	Yes	A	Yes	A
180° turn away from the collapsed side possible in 10 s	Yes	Α	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	Α	No	А
17. Low speed spin tendency	Α			
_ ·	N		NI-	^
Spin occurs	No	Α	No	Α
Spin occurs 18. Recovery from a developed spin	A	A	NO	A
•		A	No Stops spinning in less than 90°	A
18. Recovery from a developed spin	A			
<b>18. Recovery from a developed spin</b> Spin rotation angle after release	<b>A</b> Stops spinning in less than 90°	А	Stops spinning in less than 90°	A
<b>18. Recovery from a developed spin</b> Spin rotation angle after release Cascade occurs	A Stops spinning in less than 90° No A Changing course less than 45°	А	Stops spinning in less than 90°	A
<ul> <li>18. Recovery from a developed spin</li> <li>Spin rotation angle after release</li> <li>Cascade occurs</li> <li>19. B-line stall</li> </ul>	A Stops spinning in less than 90° No	A A	Stops spinning in less than 90° No	A A
<ul> <li>18. Recovery from a developed spin</li> <li>Spin rotation angle after release</li> <li>Cascade occurs</li> <li>19. B-line stall</li> <li>Change of course before release</li> </ul>	A Stops spinning in less than 90° No A Changing course less than 45°	A A A	Stops spinning in less than 90° No Changing course less than 45°	A A
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<ul> <li>18. Recovery from a developed spin</li> <li>Spin rotation angle after release</li> <li>Cascade occurs</li> <li>19. B-line stall</li> <li>Change of course before release</li> <li>Behaviour before release</li> <li>Recovery</li> </ul>	A Stops spinning in less than 90° No A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s	A A A A	Stops spinning in less than 90° No Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s	A A A A
<b>18. Recovery from a developed spin</b> Spin rotation angle after releaseCascade occurs <b>19. B-line stall</b> Change of course before releaseBehaviour before releaseRecoveryDive forward angle on exit	A Stops spinning in less than 90° 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 A A	Stops spinning in less than 90° 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 A
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<ul> <li>18. Recovery from a developed spin</li> <li>Spin rotation angle after release</li> <li>Cascade occurs</li> <li>19. B-line stall</li> <li>Change of course before release</li> <li>Behaviour before release</li> <li>Recovery</li> <li>Dive forward angle on exit</li> <li>Cascade occurs</li> <li>20. Big ears</li> <li>Entry procedure</li> <li>Behaviour during big ears</li> <li>Recovery</li> <li>Dive forward angle on exit</li> <li>21. Big ears in accelerated flight</li> <li>Entry procedure</li> <li>Behaviour during big ears</li> <li>Recovery</li> <li>Dive forward angle on exit</li> <li>21. Big ears in accelerated flight</li> <li>Entry procedure</li> <li>Behaviour during big ears</li> <li>Recovery</li> <li>Dive forward angle on exit</li> <li>22. Alternative means of directional control</li> <li>180° turn achievable in 20 s</li> </ul>	<ul> <li>A</li> <li>Stops spinning in less than 90°</li> <li>No</li> <li>A</li> <li>Changing course less than 45°</li> <li>Remains stable with straight span Spontaneous in less than 3 s</li> <li>Dive forward 0° to 30°</li> <li>No</li> <li>A</li> <li>Standard technique</li> <li>Stable flight</li> <li>Spontaneous in less than 3 s</li> <li>Dive forward 0° to 30°</li> <li>A</li> <li>Standard technique</li> <li>Stable flight</li> <li>Spontaneous in less than 3 s</li> <li>Dive forward 0° to 30°</li> <li>A</li> <li>Stable flight</li> <li>Spontaneous in less than 3 s</li> <li>Dive forward 0° to 30°</li> <li>A</li> <li>Stable flight</li> <li>Spontaneous in less than 3 s</li> <li>Dive forward 0° to 30°</li> <li>Stable flight</li> <li>Spontaneous in less than 3 s</li> <li>Dive forward 0° to 30°</li> <li>Stable flight</li> <li>Spontaneous in less than 3 s</li> <li>Dive forward 0° to 30°</li> <li>Stable flight</li> <li>Spontaneous in less than 3 s</li> <li>Dive forward 0° to 30°</li> <li>Stable flight</li> <li>Spontaneous in less than 3 s</li> <li>Dive forward 0° to 30°</li> <li>Stable flight</li> <li>Spontaneous in less than 3 s</li> <li>Dive forward 0° to 30°</li> <li>Stable flight</li> <li>Spontaneous in less than 3 s</li> <li>Dive forward 0° to 30°</li> <li>Stable flight</li> </ul>	A A A A A A A A A A A A A A A	Stops spinning in less than 90° NoChanging course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° NoStandard 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°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°Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°Yes	A A A A A A A A A A A A A A A
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