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

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Manufacturer Niviuk Gliders / Air Games S.L.		Certification number	F	PG_1857.2021		
Address C. Del Ter, 6 Nave D 17165 La Cellera de Ter Girona Spain		Flight test	3	1.08.2021		
Glider model	Kode P 18	Classification	A	N Contraction of the second seco		
Serial number KODE181		Representative	Ν	None		
Trimmer	no	Place of test		/illeneuve		
Folding lines used	no		•			
r oluling lines used	10					
Test pilot		Light pilot under Air Turquoise supervision				
Harness		Flugsau - XX-Lite	F	Flugsau - X-Light M		
		40		40		
Harness to risers distance (cm) Distance between risers (cm)				-		
		40		40		
Total weight in fligh	t (Kg)	50	70			
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	Α				
Trim speed more than 30 l	۲. km/h	Yes	А	Yes	А	
Speed range using the cor	ntrols larger than 10 km/h	Yes	А	Yes	А	
Minimum speed		Less than 25 km/h	А	Less than 25 km/h	А	
4. Control movement		Α				
Max. weight in flight up t	o 80 kg					
Symmetric control pressur	e / travel	Increasing / greater than 55 cm	А	Increasing / greater than 55 cm	А	
Max. weight in flight 80 k	g to 100 kg					
Symmetric control pressur	e / travel	not available	0	not available	0	
Max. weight in flight grea	ater than 100 kg					
Symmetric control pressur	e / travel	not available	0	not available	0	
5. Pitch stability exiting a	-	Α				
Dive forward angle on exit		Dive forward less than 30°	А	Dive forward less than 30°	Α	
Collapse occurs		No	А	No	А	
6. Pitch stability operatin flight	ig controls during accelerated	Α				
Collapse occurs		No	А	No	А	
7. Roll stability and dam	ping	Α				
Oscillations		Reducing	А	Reducing	А	
8. Stability in gentle spira	als	Α				
Tendency to return to strai	ght flight	Spontaneous exit	А	Spontaneous exit	А	
9. Behaviour exiting a fu	lly developed spiral dive	Α				
Initial response of glider (fi	rst 180°)	Immediate reduction of rate of turn	А	Immediate reduction of rate of turn	А	
Tendency to return to strai	ght flight	Spontaneous exit (g force	А	Spontaneous exit (g force	А	
Turn angle to recover normal flight		decreasing, rate of turn decreasing) Less than 720°, spontaneous	А	decreasing, rate of turn decreasing) Less than 720°, spontaneous	А	
Turn angle to recover norm	nai night	recovery		recovery		

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)	A			
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°	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	Α			
13. Recovery from a developed full stall Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
Dive forward angle on exit Collapse		A A	Dive forward 0° to 30° No collapse	A A
Dive forward angle on exit Collapse Cascade occurs (other than collapses)	Dive forward 0° to 30°			
Dive forward angle on exit Collapse	Dive forward 0° to 30° No collapse	А	No collapse No Less than 45°	А
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
Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse	Dive forward 0° to 30° No collapse No Less than 45° Most lines tight	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 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle	Dive forward 0° to 30° No collapse No Less than 45° Most lines tight	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 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour 	Dive forward 0° to 30° No collapse No Less than 45° Most lines tight A 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
 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 	Dive forward 0° to 30° No collapse No Less than 45° Most lines tight A Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360°	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 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 	Dive forward 0° to 30° No collapse No Less than 45° Most lines tight A Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation	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	A A A A
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 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 	 Dive forward 0° to 30° No collapse No Less than 45° Most lines tight A 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) 	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)	
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 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 	 Dive forward 0° to 30° No collapse No Less than 45° Most lines tight A 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 	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	A A A A A A A A A
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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	Dive forward 0° to 30° No collapse No Less than 45° Most lines tight A 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	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	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 	Dive forward 0° to 30° No collapse No Less than 45° Most lines tight A 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	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°	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 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 	 Dive forward 0° to 30° No collapse No Less than 45° Most lines tight A 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	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	A A A A A A A A A A A A A A A A
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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	 Dive forward 0° to 30° No collapse No Less than 45° Most lines tight A 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 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No 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 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
 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 occurse until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side 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 	 Dive forward 0° to 30° No collapse No Less than 45° Most lines tight A 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 (or only a small number of collapsed cells with a spontaneous reinflation) Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) 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 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

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° to 45°	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			
18. Recovery from a developed spin Spin rotation angle after release	A Stops spinning in less than 90°	А	Stops spinning in less than 90°	A
18. Recovery from a developed spin 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
 18. Recovery from a developed spin Spin rotation angle after release Cascade occurs 19. B-line stall 	A Stops spinning in less than 90° No	A A	Stops spinning in less than 90° No	A A
 18. Recovery from a developed spin Spin rotation angle after release Cascade occurs 19. B-line stall Change of course before release 	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
 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 Stops spinning in less than 90° No A Changing course less than 45° Remains stable with straight span 	A A A	Stops spinning in less than 90° No Changing course less than 45° Remains stable with straight span	A A A
 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 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
18. Recovery from a developed spin Spin rotation angle after releaseCascade occurs 19. B-line stall 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
18. Recovery from a developed spin Spin rotation angle after releaseCascade occurs 19. B-line stall Change of course before releaseBehaviour before releaseRecoveryDive forward angle on exitCascade occurs	 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° No 	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
18. Recovery from a developed spinSpin rotation angle after releaseCascade occurs19. B-line stallChange of course before releaseBehaviour before releaseRecoveryDive forward angle on exitCascade occurs20. Big ears	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° No A	A 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° No	A A A A A A
18. Recovery from a developed spinSpin rotation angle after releaseCascade occurs19. B-line stallChange of course before releaseBehaviour before releaseRecoveryDive forward angle on exitCascade occurs20. Big earsEntry procedure	 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° No A Standard technique 	A 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° No Standard technique	A A A A A A
 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 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° No A Standard technique Stable flight 		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° No Standard technique Stable flight	A A A A A A A
 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 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° No A Standard technique Stable flight Spontaneous in less than 3 s 	A A A A A 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° No Standard technique Stable flight Spontaneous in less than 3 s	A A A A A A A A
 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 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° No A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Standard technique Standard technique Standard technique 	A A A A A 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° No Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°	A A A A A A A A
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