

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

Manufacturer	Niviuk Gliders / Air Games S.L.	Certification number	PG_1611.2019
Address	C. Del Ter, 6 Nave D 17165 La Cellera de Ter Girona Spain	Flight test	18.12.2019
Glider model	Peak 5 22	Classification	D
Serial number	OPK522V33	Representative	None
Trimmer	no	Place of test	Villeneuve
Folding lines used	yes		
Test pilot		Philippe Dupont	Alain Zoller
Harness		Advance - Success 4 M	Advance - Success 4 L
Harness to risers distance (cm)		44	44
Distance between risers (cm)		40	44
Total weight in flight (kg)		80	98

1. Inflation/Take-off	C		
Rising behaviour	Easy rising, some pilot correction is required	B Overshoots, shall be slowed down to avoid a front collapse	C
Special take off technique required	No	A No	A
2. Landing	A		
Special landing technique required	No	A No	A
3. Speed in straight flight	B		
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	25 km/h to 30 km/h	B 25 km/h to 30 km/h	B
4. Control movement	C		
Max. weight in flight up to 80 kg			
Symmetric control pressure / travel	Increasing / 40 cm to 55 cm	C not available	0
Max. weight in flight 80 kg to 100 kg			
Symmetric control pressure / travel	not available	0 Increasing / 45 cm to 60 cm	C
Max. weight in flight greater than 100 kg			
Symmetric control pressure / travel	not available	0 not available	0
5. Pitch stability exiting accelerated flight	A		
Dive forward angle on exit	Dive forward less than 30°	A Dive forward less than 30°	A
Collapse occurs	No	A No	A
6. Pitch stability operating controls during accelerated flight	A		
Collapse occurs	No	A No	A
7. Roll stability and damping	A		
Oscillations	Reducing	A Reducing	A
8. Stability in gentle spirals	A		
Tendency to return to straight flight	Spontaneous exit	A Spontaneous exit	A
9. Behaviour exiting a fully developed spiral dive	D		
Initial response of glider (first 180°)	No immediate reaction	B Immediate increase in rate of turn	C
Tendency to return to straight flight	Turn remains constant (g force constant, rate of turn constant)	D Turn remains constant (g force constant, rate of turn constant)	D
Turn angle to recover normal flight	With pilot action	D With pilot action	D
10. Symmetric front collapse	D		
Approximately 30 % chord			

Entry	Rocking back less than 45°	A	Rocking back less than 45°	A
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 0° to 30° Keeping course	A	Dive forward 0° to 30° Keeping course	A
Cascade occurs	No	A	No	A
Folding lines used	Yes		Yes	
At least 50% chord				
Entry	Rocking back less than 45°	A	Rocking back less than 45°	A
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 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Entering a turn of less than 90°	A
Cascade occurs	No	A	No	A
Folding lines used	Yes		Yes	
With accelerator				
Entry	Rocking back greater than 45°	C	Rocking back greater than 45°	C
Recovery	Recovery through pilot action in less than a further 3 s	D	Spontaneous in 3 s to 5 s	B
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	A	No	A
Folding lines used	Yes		Yes	
11. Exiting deep stall (parachutal stall)				
Deep stall achieved	Yes	A	Yes	A
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Dive forward angle on exit	Dive forward 30° to 60°	B	Dive forward 0° to 30°	A
Change of course	Changing course less than 45°	A	Changing course less than 45°	A
Cascade occurs	No	A	No	A
12. High angle of attack recovery				
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Cascade occurs	No	A	No	A
13. Recovery from a developed full stall				
Dive forward angle on exit	Dive forward 30° to 60°	B	Dive forward 30° to 60°	B
Collapse	No collapse	A	No collapse	A
Cascade occurs (other than collapses)	No	A	No	A
Rocking back	Less than 45°	A	Greater than 45°	C
Line tension	Most lines tight	A	Most lines tight	A
14. Asymmetric collapse				
Small asymmetric collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45°	A	Less than 90° / Dive or roll angle 0° to 15°	A
Re-inflation behaviour	Inflates in less than 3 s from start of pilot action	C	Inflates in 3 s to 5 s from start of pilot action	D
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 re-inflation)	A	No (or only a small number of collapsed cells with a spontaneous re-inflation)	A
Twist occurs	No	A	No	A
Cascade occurs	No	A	No	A
Folding lines used	Yes		Yes	
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°	B	180° to 360° / Dive or roll angle 45° to 60°	C
Re-inflation behaviour	Inflates in less than 3 s from start of pilot action	C	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 re-inflation)	A	No (or only a small number of collapsed cells with a spontaneous re-inflation)	A
Twist occurs	No	A	No	A
Cascade occurs	No	A	No	A

Folding lines used	Yes		Yes	
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°	A	Less than 90° / Dive or roll angle 15° to 45°	A
Re-inflation behaviour	Inflates in less than 3 s from start of pilot action	C	Inflates in less than 3 s from start of pilot action	C
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)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	A	No	A
Cascade occurs	No	A	No	A
Folding lines used	Yes		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°	B	180° to 360° / Dive or roll angle 60° to 90°	D
Re-inflation behaviour	Inflates in less than 3 s from start of pilot action	C	Spontaneous re-inflation	A
Total change of course	Less than 360°	A	Greater than 360° with tendency to recover (g force decreasing, rate of turn decreasing)	C
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	A	No	A
Cascade occurs	No	A	No	A
Folding lines used	Yes		Yes	
15. Directional control with a maintained asymmetric collapse				
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	A	More than 50 % of the symmetric control travel	A
16. Trim speed spin tendency				
Spin occurs	No	A	No	A
17. Low speed spin tendency				
Spin occurs	No	A	No	A
18. Recovery from a developed spin				
Spin rotation angle after release	Stops spinning in 90° to 180°	B	Stops spinning in 90° to 180°	B
Cascade occurs	No	A	No	A
19. B-line stall				
Change of course before release	not available	0	not available	0
Behaviour before release	not available	0	not available	0
Recovery	not available	0	not available	0
Dive forward angle on exit	not available	0	not available	0
Cascade occurs	not available	0	not available	0
20. Big ears				
Entry procedure	Dedicated controls	A	Dedicated controls	A
Behaviour during big ears	Stable flight	A	Stable flight	A
Recovery	Spontaneous in less than 3 s	A	Spontaneous in 3 s to 5 s	B
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
21. Big ears in accelerated flight				
Entry procedure	Dedicated controls	A	Dedicated controls	A
Behaviour during big ears	Stable flight	A	Stable flight	A
Recovery	Spontaneous in less than 3 s	A	Recovery through pilot action in less than a further 3 s	B
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	A	Stable flight	A
22. Alternative means of directional control				
180° turn achievable in 20 s	Yes	A	Yes	A
Stall or spin occurs	No	A	No	A

23. Any other flight procedure and/or configuration described in the user's manual	0			
Procedure works as described	not available	0	not available	0
Procedure suitable for novice pilots	not available	0	not available	0
Cascade occurs	not available	0	not available	0

24. Comments of test pilot