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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

Manufacturer Niviuk Gliders / Air Games S.L.		Certification number		PG_2007.2022		
Address	C. Del Ter, 6 Nave D 17165 La Cellera de Ter Girona Spain	Flight test	1	2.07.2022		
Glider model	Hook 6 26	Classification	E	3		
Serial number	HOOK6726	Representative	N	lone		
		Place of test		Villeneuve		
Folding lines used	no no	r lace of test	`	illerieuve		
Test pilot		Claude Thurnheer	F	Alexandre Jofresa		
Harness		Dudek - Zero Gravity M		Dudek - Zero Gravity M		
Harness to risers distance (cm)		43		43		
	` ,	44				
Distance between risers (cm)				46		
Total weight in fligh	it (kg)	80	Ī	105		
1. Inflation/Take-off		A				
Rising behaviour		Smooth, easy and constant rising	Α	Smooth, easy and constant rising	Α	
Special take off technique	required	No	Α	No	Α	
2. Landing		Α				
Special landing technique required		No	Α	No	Α	
3. Speed in straight fligh	t	Α				
Trim speed more than 30	km/h	Yes	Α	Yes	Α	
Speed range using the con	ntrols larger than 10 km/h	Yes	Α	Yes	Α	
Minimum speed		Less than 25 km/h	Α	Less than 25 km/h	Α	
4. Control movement		Α				
Max. weight in flight up t	<u> </u>					
Symmetric control pressur	re / travel	not available	0	not available	0	
Max. weight in flight 80 kg to 100 kg						
Symmetric control pressur		Increasing / greater than 60 cm	Α	not available	0	
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	en e	A		D: 6 11 # 000		
Dive forward angle on exit		Dive forward less than 30°	A	Dive forward less than 30°	A	
Collapse occurs		No	Α	No	Α	
flight	ng controls during accelerated	Α				
Collapse occurs		No	Α	No	Α	
7. Roll stability and dam	ping	A Dadusins	٨	Daduaina	_	
Oscillations		Reducing	А	Reducing	Α	
Stability in gentle spirals Tendency to return to straight flight		A Spontaneous exit	Α	Spontaneous exit	Δ	
•		A	^	Oponianeous exit	А	
9. Behaviour exiting a fully developed spiral dive Initial response of glider (first 180°)		Immediate reduction of rate of turn	Α	Immediate reduction of rate of turn	Α	
Tendency to return to straight flight		Spontaneous exit (g force decreasing, rate of turn decreasing)	Α	Spontaneous exit (g force decreasing, rate of turn decreasing)	A	
Turn angle to recover normal flight		Less than 720°, spontaneous recovery	Α		Α	
10. Symmetric front colla	apse	A				
Approximately 30 % cho						
•						

Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Spontaneous in less than 3 s	Α	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	Α	No	Α
At least 50% chord				
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Spontaneous in less than 3 s	Α	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	Α	No	Α
With accelerator				
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Spontaneous in less than 3 s	Α	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	Α	No	A
11. Exiting deep stall (parachutal stall)	A		110	
Deep stall achieved	Yes	Α	Yes	Α
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
Change of course	Changing course less than 45°	Α .	Changing course less than 45°	A
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	Α			
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
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	В			
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 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	Α	No	Α
Large 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	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	Α	No	Α
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 0° to 15°	Α	Less than 90° / Dive or roll angle 0° to 15°	A

Re-Infidition behaviour					
Collapse on the opposite side occurs No (or only a small number of collapsed colles with a spontaneous reinflation) No (or central control institute) No (or central c	Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
Collapsed cells with a sportianeous Collapsed cells with a sportianeous Collapsed cells with a sportianeous Collapsed celoscoris No	Total change of course	Less than 360°	Α	Less than 360°	Α
Cascade occurs	Collapse on the opposite side occurs	collapsed cells with a spontaneous	Α	collapsed cells with a spontaneous	Α
Folding lines used	Twist occurs	No	Α	No	Α
Change asymmetric collapse with fully activated accelerator Change of course until re-inflation / Maximum dive forward or longe 0° to 18° / Dive or roll angle 0° to 18° / 0° to 45° / 0	Cascade occurs	No	Α	No	Α
Change of course until re-inflation / Maximum dive forward or langing of any la	Folding lines used	No	Α	No	Α
15	Large asymmetric collapse with fully activated accelerator				
Total change of course Collapse on the opposite side occurs No (or only a small number of collapsed cells with a spontaneous reinflation) Twist occurs No A No	• .		Α		В
Collapse on the opposite side occurs No (or only a small number of collapsed cells with a spontaneous reinflation) No No No No No No No N	Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
collapsed cells with a spontaneous reinflation reinfla	Total change of course	Less than 360°	Α	Less than 360°	Α
Cascade occurs	Collapse on the opposite side occurs	collapsed cells with a spontaneous	Α	collapsed cells with a spontaneous	Α
Folding lines used No No No No No No No N	Twist occurs	No	Α	No	Α
St. Directional control with a maintained asymmetric collapse Also to keep course	Cascade occurs	No	Α	No	Α
Lable to keep course	Folding lines used	No	Α	No	Α
180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin Control travel 16. Trim speed spin tendency A Spin occurs No A No		A			
Amount of control range between turn and stall or spin control travel 16. Trim speed spin tendency A Spin occurs No No A 17. Low speed spin tendency A 18. Recovery from a developed spin A Spin rotation angle after release Stops spinning in less than 90° A Spin by B-line stall A Changing course less than 45° Behaviour before release Remains stable with straight span A Dive forward angle on exit Behaviour during big ears Recovery Spontaneous in less than 3 s Dive forward angle on exit Dive forward angle	Able to keep course	Yes	Α	Yes	Α
Control travel	180° turn away from the collapsed side possible in 10 s	Yes	Α	Yes	Α
Spin occurs No A No No A No A No No	Amount of control range between turn and stall or spin		Α		Α
17. Low speed spin tendency	16. Trim speed spin tendency	Α			
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18. Recovery from a developed spin Spin rotation angle after release Stops spinning in less than 90° A Stops spinning in less than 90° A No A Cascade occurs No A No A No A 19. B-line stall A Change of course before release Changing course less than 45° A Changing course less than 45° A Remains stable with straight span A Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward angle on exit Dive forward 0° to 30° A Dive forward 0°	17. Low speed spin tendency	Α			
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Cascade occurs No A 19. B-line stall Change of course before release Remains stable with straight span Recovery Spontaneous in less than 3 s A Dive forward angle on exit Dive forward 0° to 30° A 20. Big ears A Entry procedure Behaviour during big ears Stable flight A Entry procedure Dedicated controls A 21. Big ears in accelerated flight Entry procedure Dedicated controls A 21. Big ears in accelerated flight A Entry procedure Dedicated controls A Dive forward 0° to 30° A Dive forward on the user's manual Dive forward 0° to 30° A Dive forward on to available A Dive forward on to available Dedicated controls A Dedicated controls A Dedicated controls A Dedicated controls A Dive forward on to available Dedicated controls A Dive forward on to available Dedicated controls A Dive forward on to available A Dedicated controls A Dedicated controls A Dive forward on to available A Dedicated controls A Dedicated c	18. Recovery from a developed spin	Α			
19. B-line stall Change of course before release Changing course less than 45° A Changing course less than 45° A Changing course less than 45° A Behaviour before release Remains stable with straight span A Remains stable with straight span A Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward angle on exit Dive forward 0° to 30° A No A No A No A No A No A Dedicated controls A Dive forward udring big ears A Dive forward 0° to 30° A Dive	Spin rotation angle after release	Stops spinning in less than 90°	Α	Stops spinning in less than 90°	Α
Change of course before release Remains stable with straight span Recovery Spontaneous in less than 3 s Recovery Spontaneous in less than 3 s Dive forward angle on exit Dive forward 0° to 30° A Dive forward 0° to 30° A Cascade occurs No A Cascade occurs A Entry procedure Dedicated controls Spontaneous in less than 3 s Dive forward 0° to 30° A Dive forward 0° to 30° A Dedicated controls A Behaviour during big ears Stable flight A Spontaneous in less than 3 s A Dedicated controls A Dedicated controls A Dive forward 0° to 30° A Dive forward 0	Cascade occurs	No	Α	No	Α
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20. Big ears A 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 less than 3 s A Dive forward angle on exit Dive forward 0° to 30° A Dive forward 0° to 30° A 21. Big ears in accelerated flight A 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 less than 3 s A 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 A R8° turn achievable in 20 s Yes A Yes A Stall or spin occurs No A No A 23. Any other flight procedure and/or conf	Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Entry procedure Dedicated controls A Stable flight A Dive forward angle on exit Dive forward 0° to 30° A Dedicated controls A Dedicated controls A Dedicated controls A Dive forward 0° to 30° A Dedicated controls A Dive forward 0° to 30° A Dive forward 0° to 3		No	Α	No	Α
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21. Big ears in accelerated flight A 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 less than 3 s A 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 Stable flight A 22. Alternative means of directional control A A Yes A Yes A 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 Onto available 0 not available 0 not available 0 not available 0	·	•	Α	•	Α
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Procedure suitable for novice pilots not available 0 not available 0	described in the user's manual				
	Procedure works as described	not available	0	not available	0
Cascade occurs not available 0 not available 0			0		0
	Cascade occurs	not available	0	not available	0