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test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes

Manufacturer



Certification number PG_2448.2024

Flight test report: EN 926-2:2013+A1:2021* and NfL 2-565-20

Niviuk Gliders / Air Games S.L.

Address	C. Del Ter, 6 Nave D 17165 La Cellera de l Spain		Flight test		04.09.2024			
Glider model	Hiko 28		Classification		В			
Serial number	PHIKO28		Representative		None			
Trimmer	no		Place of test		Villeneuve			
Folding lines used	no							
Test pilot		Claude Thurn	heer		Anselm Rauh			
Harness		Advance Thu	n AG Success 4 M		Niviuk Makan L			
Harness to risers distance [cm]		43			41			
Distance between r		44			48			
Distance between i	isers [ciii]	44			40			
Total weight in fligh	nt [kg]	95			115			
1. Inflation/Take-off		В						
Rising behaviour		Easy rising, some pile	ot correction is required	В	Easy rising, some pilot correction is required	В		
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		A			W			
Trim speed more than 30	Km/n	Yes		Α	Yes	Α		
Speed range using the controls 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		A						
	to 80 ka							
4. Control movement Max. weight in flight up to 80 kg Symmetric control pressure / travel		not available		0	not available	0		
Symmetric control pressure / travel Max. weight in flight 80 kg to 100 kg								
Symmetric control pressure / travel		Increasing / greater than 60 cm		Α	not available	0		
Max. weight in flight gre	=	not available		0	Increasing / greater than 65 cm	Α		
Symmetric control pressu	re / travei	not available		U	mcreasing/ greater than 65 cm	A		
5. Pitch stability exiting	accelerated flight	Α						
Dive forward angle on exi	t	Dive forward less tha	n 30°	Α	Dive forward less than 30°	Α		
0.11		No		۸	No	۸		
Collapse occurs		No		Α	No	Α		
6. Pitch stability operati accelerated flight	ng controls during	Α						
Collapse occurs		No		Α	No	Α		
7. Roll stability and dam	ping	A						
Oscillations		Reducing		Α	Reducing	Α		
8. Stability in gentle spir		A Constant and a suit			Constant out out			
Tendency to return to stra	light flight	Spontaneous exit		Α	Spontaneous exit	Α		

9. Behaviour exiting a fully developed spiral dive	В			
nitial response of glider (first 180°)	No immediate reaction	В	No immediate reaction	Е
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)	Α
Turn angle to recover normal flight	Less than 720°, spontaneous recovery	Α	Less than 720°, spontaneous recovery	,
IO. Symmetric front collapse Approximately 30 % chord	A			
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	,
Recovery	Spontaneous in less than 3 s		Spontaneous in less than 3 s	
Dive forward angle on exit Change of course	Dive forward 0° to 30° / Keeping course		Dive forward 0° to 30° / Keeping course	
Cascade occurs	No	Α	No	
Folding lines used	No	Α	No	
At least 50% chord	Rocking back less than 45°	Α	Rocking back less than 45°	
Entry	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	
Recovery				
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Keeping course	
Cascade occurs	No	A	No	
folding lines used	No	Α	No	
Vith accelerator				
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	Α	Dive forward 0° to 30° / Keeping course	
Cascade occurs	No	Α	No	
Folding lines used	No	Α	No	
1. Exiting deep stall (parachutal stall)	A Yes	٨	Yes	
Deep stall achieved			Spontaneous in less than 3 s	
Recovery	Spontaneous in less than 3 s			
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	
Change of course	Changing course less than 45°	Α	Changing course less than 45°	
Cascade occurs	No	Α	No	
2. High angle of attack recovery Recovery	A Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	
Cascade occurs	No		No	
3. Recovery from a developed full stall	A			
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	
Collapse	No collapse	Α	No collapse	
Cascade occurs (other than collapses)	No	Α	No	

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 15° to 45°	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 15° to 45°	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 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	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
15. Directional control with a maintained asymmetric collapse	A			
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 control travel	Α	More than 50 % of the symmetric control travel	Α
16. Trim speed spin tendency	A			
Spin occurs	No	Α	No	Α
17. Low speed spin tendency Spin occurs	A No	Α	No	Α
18. Recovery from a developed spin	В			
Spin rotation angle after release	Stops spinning in 90° to 180°	В	Stops spinning in less than 90°	Α
Cascade occurs	No	Α	No	Α
19. B-line stall	A			
Change of course before release	Changing course less than 45°	Α	Changing course less than 45°	Α
Behaviour before release	Remains stable with straight span	Α	Remains stable with straight span	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
Cascade occurs	No	Α	No	Α
20. Big ears	Α			
Entry procedure	Dedicated controls	Α	Dedicated controls	Α
Behaviour during big ears	Stable flight	Α	Stable flight	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
21. Big ears in accelerated flight	Α			
Entry procedure	Dedicated controls	Α	Dedicated controls	Α
Behaviour during big ears	Stable flight	Α	Stable flight	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
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	Α	Stable flight	Α
22. Alternative means of directional control	A		<u> </u>	_
180° turn achievable in 20 s	Yes	Α	Yes	Α
Stall or spin occurs	No	Α	No	Α
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