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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



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

Manufacturer Niviuk Gliders / Air Games S.L.		Certification number	F	PG_1796.2021	
Address	C. Del Ter, 6 Nave D 17165 La Cellera de Ter Girona Spain	Flight test	C	3.03.2021	
Glider model	Klimber 2P 21	Classification)	
Serial number	KLIMBER26121	Representative	Tim Rochas		
Trimmer	no	Place of test	Villeneuve		
Folding lines used	yes	That of tool	Ī	meneu v	
Test pilot		Claude Thurnheer	A	Alexandre Jofresa	
Harness	Harness		Advance - Success 4 M		
Harness to risers distance (cm)		40	44		
Distance between risers (cm)		44	46		
Total weight in flight (kg)		75	ç	93	
	(.	. •	Ŭ		
1. Inflation/Take-off		С			
Rising behaviour		Overshoots, shall be slowed down	С	Overshoots, shall be slowed down	С
Consist take off to shair we	and the same of	to avoid a front collapse	۸	to avoid a front collapse	^
Special take off technique 2. Landing	required	No A	А	No	Α
Special landing technique	required	No	Α	No	Α
3. Speed in straight fligh		В		110	
Trim speed more than 30		Yes	Α	Yes	Α
	ntrols larger than 10 km/h	Yes	Α	Yes	Α
Minimum speed	, and the second	25 km/h to 30 km/h	В	25 km/h to 30 km/h	В
4. Control movement		С			
Max. weight in flight up	to 80 kg				
Symmetric control pressur	re / travel	Increasing / 40 cm to 55 cm	С	not available	0
Max. weight in flight 80	kg to 100 kg				
Symmetric control pressu	re / travel	not available	0	Increasing / 45 cm to 60 cm	С
Max. weight in flight gre	ater than 100 kg				
Symmetric control pressu	re / travel	not available	0	not available	0
5. Pitch stability exiting	· · · · · · · · · · · · · · · · · · ·	A			
Dive forward angle on exit		Dive forward less than 30°	A	Dive forward less than 30°	Α
Collapse occurs	un contucto diritira concluente d	No	Α	No	Α
flight	ng controls during accelerated	A			
Collapse occurs		No	Α	No	Α
Roll stability and dam Oscillations	ping	A Poducing	۸	Poducing	٨
8. Stability in gentle spir	rale	Reducing A	А	Reducing	Α
Tendency to return to stra		Spontaneous exit	Α	Spontaneous exit	Α
•	• •	B	^	оролилооно оли	^
	9. Behaviour exiting a fully developed spiral dive Initial response of glider (first 180°)		В	No immediate reaction	В
Tendency to return to stra		No immediate reaction Spontaneous exit (g force	A	Spontaneous exit (g force	A
Turn angle to recover normal flight		decreasing, rate of turn decreasing) 720° to 1 080°, spontaneous	В	decreasing, rate of turn decreasing) 720° to 1 080°, spontaneous	В
		recovery		recovery	
10. Symmetric front collapse		С			

Approximately 30 % 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	Yes		Yes	
At least 50% chord				
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Spontaneous in 3 s to 5 s	В	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	Yes		Yes	
With accelerator				
Entry	Rocking back less than 45°	Α	Rocking back greater than 45°	С
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in 3 s to 5 s	В
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	Yes		Yes	
11. Exiting deep stall (parachutal stall)	A			
Deep stall achieved	Yes	Α	Yes	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
Change of course	Changing course less than 45°	Α	Changing course less than 45°	Α
Cascade occurs	No	Α		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	В			
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 30° to 60°	В
Collapse	No collapse	Α	No collapse	A
Cascade occurs (other than collapses)	No	Α	No	Α
Rocking back	Less than 45°	Α	Less than 45°	Α
Line tension	Most lines tight		Most lines tight	Α
14. Asymmetric collapse	C		wost into tight	
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°	Α	Less than 90° / Dive or roll angle 0° to 15°	Α
Re-inflation behaviour	Inflates in less than 3 s from start of pilot action	С	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	Yes		Yes	^
Large asymmetric collapse	103		103	
Change of course until re-inflation / Maximum dive forward or	Less than 90° / Dive or roll angle	Α	Less than 90° / Dive or roll angle	Α
roll angle Re-inflation behaviour	15° to 45° Spontaneous re-inflation		15° to 45° Spontaneous re-inflation	A
Total change of course	Less than 360°	A A	Less than 360°	A
G		A		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	Α	No	Α
Cascade occurs	No	Α	No	Α
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°	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	Yes		Yes	
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 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	Yes		Yes	
15. Directional control with a maintained asymmetric	Α			
collapse	Yes	۸	Van	Λ
Able to keep course	Yes	A A	Yes Yes	Α
180° turn away from the collapsed side possible in 10 s				A
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	Α			
Spin occurs	No	Α	No	Α
17. Low speed spin tendency	Α			
Spin occurs	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	0			
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	В			
Entry procedure	Dedicated controls	Α	not available	0
Behaviour during big ears	Stable flight	Α	Stable flight	Α
Recovery	Spontaneous in 3 s to 5 s	A B	Spontaneous in less than 3 s	A A
Recovery Dive forward angle on exit	Spontaneous in 3 s to 5 s Dive forward 0° to 30°			
Recovery Dive forward angle on exit 21. Big ears in accelerated flight	Spontaneous in 3 s to 5 s Dive forward 0° to 30° A	B A	Spontaneous in less than 3 s Dive forward 0° to 30°	A A
Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure	Spontaneous in 3 s to 5 s Dive forward 0° to 30° A Dedicated controls	B A	Spontaneous in less than 3 s Dive forward 0° to 30° not available	A A 0
Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure Behaviour during big ears	Spontaneous in 3 s to 5 s Dive forward 0° to 30° A Dedicated controls Stable flight	B A A	Spontaneous in less than 3 s Dive forward 0° to 30° not available Stable flight	A A 0 A
Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery	Spontaneous in 3 s to 5 s Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in 3 s to 5 s	B A A A	Spontaneous in less than 3 s Dive forward 0° to 30° not available Stable flight Spontaneous in less than 3 s	A A 0 A A
Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery Dive forward angle on exit	Spontaneous in 3 s to 5 s Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in 3 s to 5 s Dive forward 0° to 30°	A A A A	Spontaneous in less than 3 s Dive forward 0° to 30° not available Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°	A A 0 A A
Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Behaviour immediately after releasing the accelerator while maintaining big ears	Spontaneous in 3 s to 5 s Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in 3 s to 5 s Dive forward 0° to 30° Stable flight	B A A A	Spontaneous in less than 3 s Dive forward 0° to 30° not available Stable flight Spontaneous in less than 3 s	A A 0 A A
Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Behaviour immediately after releasing the accelerator while maintaining big ears 22. Alternative means of directional control	Spontaneous in 3 s to 5 s Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in 3 s to 5 s Dive forward 0° to 30° Stable flight A	A A A A	Spontaneous in less than 3 s Dive forward 0° to 30° not available Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight	A A 0 A A
Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Behaviour immediately after releasing the accelerator while maintaining big ears 22. Alternative means of directional control 180° turn achievable in 20 s	Spontaneous in 3 s to 5 s Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in 3 s to 5 s Dive forward 0° to 30° Stable flight A Yes	B A A A A	Spontaneous in less than 3 s Dive forward 0° to 30° not available Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight Yes	A A A A A
Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Behaviour immediately after releasing the accelerator while maintaining big ears 22. Alternative means of directional control 180° turn achievable in 20 s Stall or spin occurs	Spontaneous in 3 s to 5 s Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in 3 s to 5 s Dive forward 0° to 30° Stable flight A Yes No	A A A A	Spontaneous in less than 3 s Dive forward 0° to 30° not available Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight	A A A A
Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Behaviour immediately after releasing the accelerator while maintaining big ears 22. Alternative means of directional control 180° turn achievable in 20 s Stall or spin occurs 23. Any other flight procedure and/or configuration described in the user's manual	Spontaneous in 3 s to 5 s Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in 3 s to 5 s Dive forward 0° to 30° Stable flight A Yes No 0	B A A A A	Spontaneous in less than 3 s Dive forward 0° to 30° not available Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight Yes No	A A A A A
Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Behaviour immediately after releasing the accelerator while maintaining big ears 22. Alternative means of directional control 180° turn achievable in 20 s Stall or spin occurs 23. Any other flight procedure and/or configuration described in the user's manual Procedure works as described	Spontaneous in 3 s to 5 s Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in 3 s to 5 s Dive forward 0° to 30° Stable flight A Yes No 0 not available	B A A A A	Spontaneous in less than 3 s Dive forward 0° to 30° not available Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight Yes No not available	A A A A A
Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Behaviour immediately after releasing the accelerator while maintaining big ears 22. Alternative means of directional control 180° turn achievable in 20 s Stall or spin occurs 23. Any other flight procedure and/or configuration described in the user's manual	Spontaneous in 3 s to 5 s Dive forward 0° to 30° A Dedicated controls Stable flight Spontaneous in 3 s to 5 s Dive forward 0° to 30° Stable flight A Yes No 0	A A A A A A	Spontaneous in less than 3 s Dive forward 0° to 30° not available Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight Yes No	A A A A A