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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Eliabt toot report: EN 026 2:2012 8 | TE 01/00

Flight test rep	ort: EN 926-2:2013	& LTF 91/09			
Manufacturer	Niviuk Gliders / Air Games S.L.	Certification number		PG_1184.2017	
Address	C. Del Ter, 6 – Nave D 17165 La Cellera de Ter Girona Spain	Date of flight test		29. 04. 2017	
Glider model	Klimber P 20	Classification		D	
Serial number	Klimber 6-20	Representative		None	
Trimmer	no	Place of test		Villeneuve	
Folding lines used	yes	1 1400 01 1001		VIIIONOGVO	
r olding lines asea	yes				
Test pilot		Dupont Philippe		Thurnheer Claude	
Harness		Supair - Altiplume S		Niviuk - Hamak M	
Harness to risers di	istance (cm)	43		44	
Distance between r	` '	40		44	
	, ,	65		85	
Total weight in fligh	it (kg)	05		65	
1. Inflation/Take-off		В			
Rising behaviour		Easy rising, some pilot	В	Easy rising, some pilot correction is	В
On a sight-halo affite also inves		correction is required	^	required	
Special take off technique	required	No	Α	No	Α
2. Landing		A No	Α	No	Α
Special landing technique required 3. Speed in straight flight		В		NO	^
Trim speed more than 30 km/h		Yes	Α	Yes	Α
Speed range using the controls larger than 10 km/h		Yes	Α	Yes	Α
Minimum speed		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	•	Increasing / 40 cm to EE cm	0	not available	0
Symmetric control pressur	e / travei	Increasing / 40 cm to 55 cm	С	not available	0
Max. weight in flight 80 l	kg to 100 kg				
Symmetric control pressur	re / travel	not available	0	Increasing / 45 cm to 60 cm	С
Max. weight in flight gre	ator than 100 kg				
Symmetric control pressur	=	not available	0	not available	0
5. Pitch stability exiting		A		Tier a valiable	
Dive forward angle on exit		Dive forward less than 30°	Α	Dive forward less than 30°	Α
Collapse occurs		No	Α	No	Α
6. Pitch stability operating	ng controls during accelerated	A			
Collapse occurs		No	Α	No	Α
7. Roll stability and damping		Α			
Oscillations		Reducing	Α	Reducing	Α
8. Stability in gentle spir		A	_		_
Tendency to return to straight flight		Spontaneous exit	Α	Spontaneous exit	Α
	lly developed spiral dive	B	۸	Immediate reduction of rate of time	Δ
Initial response of glider (f	iist iou)	Immediate reduction of rate of turn	Α	Immediate reduction of rate of turn	Α

turn

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	720° to 1 080°, spontaneous recovery	В	Less than 720°, spontaneous recovery	Α
10. Symmetric front collapse	В			
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 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	No		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 3 s to 5 s	В
Dive forward angle on exit / Change of course	Dive forward 30° to 60° / Keeping course	В	Dive forward 0° to 30° / Keeping course	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No		Yes	
With accelerator				
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Spontaneous in 3 s to 5 s	В -	Spontaneous in 3 s to 5 s	В
Dive forward angle on exit / Change of course	Dive forward 30° to 60° / Keeping course	В	Dive forward 0° to 30° / Keeping course	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No		Yes	
11. Exiting deep stall (parachutal stall)	D			
Deep stall achieved	Yes	Α_	Yes	Α
Recovery	Recovery through pilot action in less than a further 5 s	D	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	No	Α
12. High angle of attack recovery	С	_		
Recovery	Spontaneous in 3 s to 5 s	C	Spontaneous in less than 3 s	A
Cascade occurs	No	Α	No	Α
13. Recovery from a developed full stall	A		D	
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
Collapse	No collapse	A	No collapse	A
Cascade occurs (other than collapses)	No	A	No	A
Rocking back	Less than 45°	A	Less than 45°	A
Line tension 14. Asymmetric collapse	Most lines tight B	Α	Most lines tight	Α
Small asymmetric collapse				
Change of course until re-inflation / Maximum dive forward or	Less than 90° / Dive or roll angle	Δ	Less than 90° / Dive or roll angle	Α
roll angle	0° to 15°		15° to 45°	
Re-inflation behaviour	Spontaneous re-inflation	A	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 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		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°	В	90° to 180° / Dive or roll angle 15° to 45°	В
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		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	No		Yes	
Large commetric colleges with fully activated accelerator				
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	90° to 180° / Dive or roll angle 15° to 45°	В
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		Yes	
15. Directional control with a maintained asymmetric collapse	Α			
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	A			
Spin occurs	No	Α	No	Α
18. Recovery from a developed spin	В			
Spin rotation angle after release	Stops spinning in less than 90°	Α	Stops spinning in 90° to 180°	В
Cascade occurs	No	Α	No	Α
Cascade occurs 19. B-line stall		A	No	А
	No	A 0	not available	A 0
19. B-line stall	No 0			
19. B-line stall Change of course before release	No not available	0	not available	0
19. B-line stall Change of course before release Behaviour before release	No not available not available	0	not available not available not available not available	0
19. B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs	No not available not available not available not available not available not available	0 0 0	not available not available not available	0 0 0
19. B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears	No O not available not available not available not available not available A	0 0 0 0	not available not available not available not available not available	0 0 0 0
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	No O not available not available not available not available not available A Dedicated controls	0 0 0 0	not available not available not available not available not available Dedicated controls	0 0 0 0
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	No O not available not available not available not available not available A Dedicated controls Stable flight	0 0 0 0	not available not available not available not available not available Dedicated controls Stable flight	0 0 0 0
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	No O not available not available not available not available not available A Dedicated controls	0 0 0 0 0	not available not available not available not available not available Dedicated controls	0 0 0 0 0

21. Big ears in accelerated flight	A			
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			
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
24. Comments of test pilot				
Comments	B-Line stall test excluded from User's Manual		B-Line stall test excluded from User's Manual	