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test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



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

ManufacturerNiviuk Gliders / Air GAddressC. Del Ter, 6 Nave D17165 La Cellera de TSpain			Certification num Flight test	ıber	PG_2303.2023 23.11.2023	
Glider model Serial number Trimmer Folding lines used	Ikuma 3 P 22 SI461928 no no		Classification Representative Place of test		B None Villeneuve	
Test pilot		Nicole Fedele			Claude Thurnheer	
Harness Harness to risers distance (cm) Distance between risers (cm) Total weight in flight (kg)		Woody Valley 41 40 65	srl Wani Light 2 S		Niviuk Hamak M 42 44 85	
1. Inflation/Take-off Rising behaviour		B Easy rising, some pilo	B Easy rising, some pilot correction is required B		Easy rising, some pilot correction is required	В
Special take off technique	required	No		A	No	A
2. Landing Special landing technique required		A No		A	No	А
3. Speed in straight flight Trim speed more than 30 km/h		A Yes		A	Yes	A
Speed range using the controls larger than 10 km/h		Yes A		Yes	А	
Minimum speed		Less than 25 km/h		A	Less than 25 km/h	A
4. Control movement Max. weight in flight up to 80 kg Symmetric control pressure / travel		A Increasing / greater than 55 cm A		not available	0	
Max. weight in flight 80 kg to 100 kg Symmetric control pressure / travel		not available 0		Increasing / greater than 60 cm	A	
Max. weight in flight greater than 100 kg Symmetric control pressure / travel		not available		0	not available	0
5. Pitch stability exiting accelerated flight Dive forward angle on exit		A 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 Oscillations		A Reducing		A Reducing		A
8. Stability in gentle spirals Tendency to return to straight flight		A Spontaneous exit		A	Spontaneous exit	A

*This standard is NOT covered by accreditation D-IS-19457-01

The validation of this test report is given by the signature of the test manager on inspection certificate 91.20 Rev 07 | 04.03.2022 // ISO | 91.22 // Page 1 of 4

Initial response of glidar (first 180°)No immediate weationSo No immediate weationSoTendency to return to straight fightSepatemena cet of factor storename, and if the second of the 20° hardward and the 20° hardward and second factor 20° hardward and second 20° hardward 20° hardwardward 20° hardward 20° hardward 20° hardward 20° ha	9. Behaviour exiting a fully developed spiral dive	В			
International and any		No immediate reaction	В	No immediate reaction	В
Componential from collapse A Copyroximately 30 % chord A Entry Rodeing back less than 45° A Rodeing back less than 45° A Recovery Spontameous in less than 3 s A Spontameous in less than 3 s A 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 No A Cascade occurs No A No A No A A fleast 50% chord Torking back less than 40° A No A No A Cascade occurs No A No A No A No A Dive forward angle on exit / Change of course Dive forward 0 to 30° / Keeping course A No A No A Cascade occurs No No A No No A No Cascade occurs No No A No No A No A Cascade occurs No A <td>Tendency to return to straight flight</td> <td></td> <td>A</td> <td></td> <td>A</td>	Tendency to return to straight flight		A		A
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Cascade occursNoANoA12. High angle of attack recovery RecoveryA Spontaneous in less than 3 sASpontaneous in less than 3 sACascade occursNoNoANoACascade occursNoADive forward 0° to 30°ANo13. Recovery from a developed full stall Dive forward angle on exitADive forward 0° to 30°ADive forward 0° to 30°ACollapseNo collapseANo collapseANo collapseA	Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
12. High angle of attack recovery A Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Cascade occurs No A Spontaneous in less than 3 s A Spontaneous in less than 3 s A 13. Recovery from a developed full stall A Dive forward 0° to 30° A Dive forward 0° to 30° A Dive forward 0° to 30° A Collapse No collapse A Dive forward 0° to 30° A Dive forward 0° to 30° A	Change of course	Changing course less than 45°	A	Changing course less than 45°	A
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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	No	A	No	A
			A	Dive forward 0° to 30°	A
	Collapse	No collapse	A	No collapse	А
	Cascade occurs (other than collapses)	No	A	No	A

Rocking back	Less than 45°	А	Less than 45°	А
Line tension	Most lines tight	А	Most lines tight	A
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°	A	Less than 90° / Dive or roll angle 0° to 15° $$	A
Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	А
Total change of course	Less than 360°	A	Less than 360°	A
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	A	No	А
Cascade occurs	No	A	No	A
Folding lines used	No	A	No	А
Large asymmetric collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45° $$	A	90° to 180° / Dive or roll angle 15° to 45°	В
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)	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	No	A	No	A
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°	A	Less than 90° / Dive or roll angle 15° to 45°	A
Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	А
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	No	A	No	А
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	A	Spontaneous re-inflation	А
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	Νο	A	No	A
15. Directional control with a maintained	Α			
asymmetric collapse Able to keep course	Yes	A	Yes	А
' 180° turn away from the collapsed side possible in 10 s	Yes	A	Yes	А
Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel		More than 50 % of the symmetric control travel	A
16. Trim speed spin tendency Spin occurs	A No	A	No	A
17. Low speed spin tendency Spin occurs	A No	A	No	A
18. Recovery from a developed spin	A			
Spin rotation angle after release	Stops spinning in less than 90°	A	Stops spinning in less than 90°	А
Cascade occurs	No	A	No	А
19. B-line stall	Α			
Change of course before release	Changing course less than 45°	A	Changing course less than 45°	А
Behaviour before release	Remains stable with straight span	A	Remains stable with straight span	А
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°	А
Cascade occurs	Νο	A	No	А
20. Big ears	В			
Entry procedure	Dedicated controls	A	Dedicated controls	А
Behaviour during big ears	Stable flight	A	Stable flight	A
Recovery	Spontaneous in 3 s to 5 s	В	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	В			
Entry procedure	Dedicated controls	A	Dedicated controls	А
Behaviour during big ears	Stable flight	A	Stable flight	A
Recovery	Recovery through pilot action in less than a further 3 s	в	Spontaneous in less than 3 s	A
Dive forward angle on exit	Dive forward 0° to 30°	А	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	Α			
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