AIR TURQUOISE SA | PARA-TEST.COM

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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

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ManufacturerNiviuk Gliders / Air GAddressC. Del Ter, 6 Nave D17165 La Cellera de T			Certification num	ber		
			Flight test		08.11.2023	
	Spain					
Glider model	lkuma 3 P 24		Classification		В	
Serial number	IKUMA3P24FT		Representative		None	
Trimmer	no		Place of test		Villeneuve	
Folding lines used	no					
Test pilot		Victor Chinen Cirilli		Alexandre Jofresa		
Harness		Advance Thun AG Success 4 M		BGD GmbH Snug M		
Harness to risers di	istance	43			43	
(cm) Distance betw	een risers	40			44	
(cm) Total weight in	n flight (kg)	75	75		95	
1. Inflation/Take-off		В				
Rising behaviour		Easy rising, some pilo	Easy rising, some pilot correction is required B		Easy rising, some pilot correction is required	В
Special take off technique	required	No		A	No	А
2. Landing		A				
Special landing technique	required	No		A	No	А
3. Speed in straight fligh	nt	Α				
Trim speed more than 30 km/h		Yes A		Yes	А	
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		А				
Max. weight in flight up						
Symmetric control pressure / travel		Increasing / greater th	an 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 gre	ater than 100 kg					
Symmetric control pressure / travel		not available		0	not available	0
5. Pitch stability exiting	accelerated flight	Α				
Dive forward angle on exit		Dive forward less than	n 30°	A	Dive forward less than 30°	А
Collapse occurs		No		A	No	A
6. Pitch stability operating controls during accelerated flight		Α				
Collapse occurs		No		A	No	А
7. Roll stability and damping		Α				
Oscillations		Reducing		A	Reducing	A
8. Stability in gentle spirals		Α				
Tendency to return to straight flight		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° har	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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Recovery Spontameous in leas than 3 is A Spontameous in leas than 3 is A Dive forward angle on exit Change of course Dive forward 0 is 307 / Keeping course A Dive forward 0 is 307 / Keeping course A Cascade occurs No A No A Folding lines used No A No A At least 50% chord Entry Recovery Spontameous in leas than 3 is A Spontameous in leas than 3 is A Probing lines used No No A Recovery Spontameous in leas than 3 is A Spontameous in leas than 3 is A Cascade occurs No No A No No A Colding lines used No No A No A Cascade occurs No A No A Recovery A Childing lines used No A No A Recovery A Cascade occurs No A Rocking back less than 40° A Rocking back less than 40° A Cascade occurs No A No A <td></td> <td>A</td> <td></td> <td></td> <td></td>		A			
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Cascade occursNoANoAFolding lines usedNoANoA 11. Exiting deep stall (parachutal stall) Deep stall achieved A YesAYesA Recovery Spontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°AChange of courseChanging course less than 45°AChanging course less than 45°ACascade occursNoANoA 12. High angle of attack recovery Recovery A Spontaneous in less than 3 sA 13. Recovery from a developed full stall Dive forward 0° to 30°ANoA 13. Recovery from a developed full stall Dive forward 0° to 30°ANoA 13. Recovery from a developed full stall Dive forward 0° to 30°ANoA 13. Recovery from a developed full stall Dive forward 0° to 30°ANoA 13. Recovery from a developed full stall Dive forward 0° to 30°ANoA 13. Recovery from a developed full stall Dive forward 0° to 30°ANoA 14. Bive forward 0° to 30°ANoANo 15. Recovery from a developed full stall Dive forward 0° to 30°ANoA 16. Bive forward 0° to 30°ANoANo 17. Bive forward 0° to 30°ANoNoA 17. Bive forward 0° to 30°ANoNoA <td>Recovery</td> <td>Spontaneous in less than 3 s</td> <td>A</td> <td>Spontaneous in less than 3 s</td> <td>A</td>	Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	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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13. Recovery from a developed full stall A Dive forward angle on exit Dive forward 0° to 30° A Dive forward 0° to 30° A Collapse No collapse A No collapse A No collapse A			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 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°	А
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	90° to 180° / Dive or roll angle 15° to 45°	В	Less than 90° / Dive or roll angle 15° to 45° $$	A
Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	А
Total change of course	Less than 360°	A	Less than 360°	A
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	A	No	A
Cascade occurs	No	A	No	A
Folding lines used	No	A	No	A
Small asymmetric collapse with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45°	A	Less than 90° / Dive or roll angle 15° to 45° $$	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	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	Νο	А
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	А	Yes	A
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	A
19. B-line stall	A			
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	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
Cascade occurs	No	A	No	А
20. Big ears	A			
Entry procedure	Dedicated controls	A	Dedicated controls	А
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°	А
21. Big ears in accelerated flight	Α			
Entry procedure	Dedicated controls	A	Dedicated controls	А
Behaviour during big ears	Stable flight	A	Stable flight	А
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	А
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	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