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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 2024-2-785

Manufacturer Mac Para Technology Address Televizní 2615 756 61 Roznov pod Radhostem		Certification num Flight test	nbei	PG_2545.2025 07.03.2025		
Glider model Serial number Trimmer Folding lines used	Czech Republic Eden 8 21 2821-2032 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]		Woody Valley 41 40	srl Wani Light 2 S		Niviuk Makan M 41 44	
Total weight in flight [kg]		60		82		
1. Inflation/Take-off Rising behaviour		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	A
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 th	nan 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 that	n 30°	A	Dive forward less than 30°	A
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 Oscillations		A Reducing		A	Reducing	A
8. Stability in gentle spirals Tendency to return to straight flight		A Spontaneous exit		A	Spontaneous exit	A

The validation of this test report is given by the signature of the test manager on inspection certificate 91.20 // Rev 08 | 02.02.2025 // ISO | 91.22 // Page 1 of 4

Initial response of giller (funct 100)Nutereatile reactorisis reactor induction of two offs of another state (for on another state) (for another state) (for another state) (for another s	9. Behaviour exiting a fully developed spiral dive	В			
Internancial of an advectancy of a decreasing of the section (SP) spontaneous necessary (SP) Internancial (SP) spontaneous necessary (SP) Internancial (SP) Internancin (SP) Internancial (SP) <		No immediate reaction	В	Immediate reduction of rate of turn	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 No collapse A	Cascade occurs	No	A	No	A
			A	Dive forward 0° to 30°	A
Cascade occurs (other than collapses) No A No 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 15° to 45° $$	A
Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	A
Total change of course	Less than 360°	A	Less than 360°	А
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	A	No	А
Cascade occurs	No	A	No	A
Folding lines used	No	A	No	А
Large asymmetric collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	90° to 180° / Dive or roll angle 15° to 45°	В	90° to 180° / Dive or roll angle 15° to 45°	В
Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	А
Total change of course	Less than 360°	A	Less than 360°	A
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	A	No	A
Cascade occurs	No	A	No	A
Folding lines used	No	A	No	A
Small asymmetric collapse with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45° $$	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	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	А	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	В			
Spin rotation angle after release	Stops spinning in less than 90°	A	Stops spinning in 90° to 180°	в
Cascade occurs	No	A	No	A
19. B-line stall	Α			
Change of course before release	Changing course less than 45°	A	Changing course less than 45°	A
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	А
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
Cascade occurs	No	A	No	A
20. Big ears	Α			
Entry procedure	Dedicated controls	A	Dedicated controls	A
Behaviour during big ears	Stable flight	A	Stable flight	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°	A
21. Big ears in accelerated flight	A			
Entry procedure	Dedicated controls	A	Dedicated controls	A
Behaviour during big ears	Stable flight	А	Stable flight	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°	А	Dive forward 0° to 30°	А
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