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Ozone Gliders LTD

16 Barnes Green

test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes

Manufacturer

Address



Certification number PG_2346.2024

09.01.2024

Flight test

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

Glider model Serial number Trimmer Folding lines used	EH54 8PP Livingston United Kingdom Kona 3 24 PR12-Y-27C-001 no		Classification Representative Place of test		B Villeneuve	
Test pilot		Nicole Fedele			Claude Thurnheer	
Harness Harness to risers distance [cm] Distance between risers [cm] Total weight in flight [kg]		Woody Valley srl Wani Light 2 M 43 40 65		Advance Thun AG Success 4 M 43 44 85		
1. Inflation/Take-off		A Smooth appy and con	atont visina	٨	Smooth, easy and constant rising	۸
Rising behaviour		Smooth, easy and constant rising A				Α
Special take off technique	required	No		Α	No	Α
2. Landing Special landing technique	required	A No		Α	No	Α
3. Speed in straight fligh		A			v	
Trim speed more than 30	km/h	Yes		Α	Yes	Α
Speed range using the co	ntrols larger than 10 km/h	Yes		Α	Yes	Α
Minimum speed		Less than 25 km/h		Α	Less than 25 km/h	Α
4. Control movement		Α				
Max. weight in flight up to 80 kg Symmetric control pressure / travel		Increasing / greater that	an 55 cm	Α	not available	0
		moreasing / greater the	35 6111	^	not available	Ü
Max. weight in flight 80 kg to 100 kg Symmetric control pressure / travel		not available		0	Increasing / greater than 60 cm	Α
Max. weight in flight greater than 100 kg Symmetric control pressure / travel		not available		0	not available	0
5. Pitch stability exiting	accelerated flight	A				
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 operation	ng controls during	Α				
Collapse occurs		No		Α	No	Α
7. Roll stability and dam	ping	A				
Oscillations		Reducing		Α	Reducing	Α
8. Stability in gentle spirals		A				
Tendency to return to stra	ight flight	Spontaneous exit		Α	Spontaneous exit	Α

Initial response of glober (first 180") Tondoncy to return to straight light Socrameous ent to force decreasing, rate of burn A content of the content of	9. Behaviour exiting a fully developed spiral dive	A			
decreasing) Least than 7201, sportaneous recovery A Reco	Initial response of glider (first 180°)		Α	Immediate reduction of rate of turn	Α
Approximately 30 % chord Entry Recovery Special basis lies than 40° A Recovery Special basis lies than 40° A Special basis lies than 3 s A Special basis lies than 3 s A Special basis lies than 3 s A No A No A Recovery Booking basis lies than 40° A No A Recovery Booking basis lies than 40° A No A Recovery Booking basis lies than 40° A No A No A No A No A Recovery Booking basis lies than 40° A No A N	Tendency to return to straight flight		Α		Α
Approximately 30 % chord Entry Rocking back less than 45" A Rocking back less than 45" A Rocking back less than 45" A Spontaneous in less than 3 s A Dive forward angle on exit Change of course Dive forward 0"to 30" / Keeping course A No A No A No A Folding lines used No A No A No A Rocking back less than 45" A Rocking back less than	Turn angle to recover normal flight	Less than 720°, spontaneous recovery	Α	Less than 720°, spontaneous recovery	Α
Recovery Spontaneous in less than 3 s	10. Symmetric front collapse Approximately 30 % chord	A			
Dive forward angle on exit Change of course Dive forward 0° to 30° / Keeping course A No A No A	Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Cascade occurs No A No Cascade occurs No No No A No	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Folding lines used No A No	Dive forward angle on exit Change of course	Dive forward 0° to 30° / Keeping course	Α	Dive forward 0° to 30° / Keeping course	Α
At least 50% chord Entry Rocking back less than 45° A Rocking back less than 45° A Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward angle on exit / Change of course No A No A No A Rocking back less than 45° A No A No A No A No A Rocking back less than 45° A No A N	Cascade occurs	No	Α	No	Α
Entry Rocking back less than 45° A Rocking back less than 45° A Rocking back less than 45° A Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward or 10 30° / Keeping course A Cascade occurs No A No A No A No A No A No A Recovery Entry Rocking back less than 45° A Rocking	Folding lines used	No	Α	No	Α
Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward on the sum of	At least 50% chord	Dealing healt less than 459	^	Dooling book loss than 45°	٨
Dive forward angle on exit / Change of course Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A No A No A No A No A No A No A With accelerator Entry Rocking back less than 45° A Rocking back less than 45° A Rocking back less than 45° A Spontaneous 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 Dive forward 0° to 30° / Keeping course A No A Spontaneous in less than 3 s A No Cascade occurs A No Cascade occurs A No A No	•	•			
Cascade occurs No No A No A No A No A No A With accelerator Entry Rocking back less than 45° A Recovery Spontaneous in less than 3 s A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Cascade occurs No A No A Dive forward 0° to 30° / Keeping course A Cascade occurs No A No A Dive forward 0° to 30° / Keeping course A Cascade occurs No A No A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Cascade occurs No A No A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / A Dive forward 0°	•				
Folding lines used No No A No A No A No A No A With accelerator Entry Rocking back less than 45° A Rocking back less than 45° A Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A No A N	•				
With accelerator Entry Rocking back less than 45° A Rocking back less than 45° A Rocking back less than 45° A Recovery Spontaneous in less than 3 s A Spontaneous 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 No A N					
Entry Rocking back less than 45° A Rocking back less than 45° A Rocking back less than 45° A Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A No A N	•	NO	А	No	А
Recovery Spontaneous in less than 3 s A Dive forward on to 30° / Keeping course A Dive forward on to 30° / Keeping course A No A Spontaneous in less than 3 s A Dive forward on to 30° A Dive forward on to 30° A Dive forward on to 30° A Changing course less than 45° A Changing course less than 45° A No					
Dive forward angle on exit / Change of course Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A No A Dive forward 0° to 30° A No A N	Entry	-	А	-	Α
Cascade occurs No A No A No A No A No A No A 11. Exiting deep stall (parachutal stall) Deep stall achieved Yes A Recovery Spontaneous in less than 3 s A Dive forward angle on exit Dive forward 0° to 30° A Changing course less than 45° A Cascade occurs No A Cascade occurs No A Dive forward 0° to 30° A	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Folding lines used No A No A No A No A No A 11. Exiting deep stall (parachutal stall) A Deep stall achieved Yes A Yes A Yes A 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 Change of course Changing course less than 45° A Cascade occurs No A No A No A Spontaneous in less than 45° A Changing course less than 45° A Cascade occurs No A No A No A Spontaneous in less than 3 s A Spontaneous in less than 45° A Spontaneous in less than 3 s A Spontaneous in less	Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	Α	Dive forward 0° to 30° / Keeping course	Α
11. Exiting deep stall (parachutal stall) Deep stall achieved Yes A Yes A Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward on to 3000 A Dive forward on to 3000 A Dive forward on to 3000 A Changing course less than 4500 A Changing course less than 4500 A No 12. High angle of attack recovery Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Spontaneous in less than 3 s A No A No A No A Spontaneous in less than 3 s A No Cascade occurs No A	Cascade occurs	No	Α	No	Α
Deep stall achieved Yes A Yes A Yes 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 Change of course Change of course Changing course less than 45° A Changing course less than 45° A Changing course less than 45° A No 12. High angle of attack recovery Recovery No Spontaneous in less than 3 s A No 13. Recovery from a developed full stall Dive forward 0° to 30° A Dive forward 0° to 30° A Dive forward 0° to 30° A No collapse A No collapse	Folding lines used	No	Α	No	Α
Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward on to 30 on the forward	11. Exiting deep stall (parachutal stall)		۸	Vec	Λ
Dive forward angle on exit Dive forward 0° to 30° A Dive forward 0° to 30° A Changing course less than 45° A No A 12. High angle of attack recovery Recovery A Spontaneous in less than 3 s A Spontaneous in less than 3 s A No Collapse					
Change of course Changing course less than 45° A Changing course less than 45° A Cascade occurs No A No A No A No A Spontaneous in less than 3 s A Spontaneous in less than 3 s A No					
Cascade occurs No A 12. High angle of attack recovery Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Cascade occurs No A No A No A Dive forward 0° to 30° A No collapse A No collapse A No collapse A					
12. High angle of attack recovery Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A No A No A No A Dive forward 0° to 30° A No collapse A No collapse A No collapse					
Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Cascade occurs No A No A 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 A No collapse A No collapse A	Cascade occurs		Α	No	Α
Cascade occurs No A No A No A 13. Recovery from a developed full stall Dive forward 0° to 30° A Dive forward 0° to 30° A No collapse A No collapse A No collapse A	12. High angle of attack recovery Recovery		Α	Spontaneous in less than 3 s	Α
Dive forward angle on exit Dive forward 0° to 30° A Dive forward 0° to 30° A Collapse A No collapse A	Cascade occurs	No	Α	No	Α
Dive forward angle on exit Dive forward 0° to 30° A Dive forward 0° to 30° A Collapse A No collapse A	13. Recovery from a developed full stall	A			
	Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Cascade occurs (other than collapses) No A No A	Collapse	No collapse	Α	No collapse	Α
	Cascade occurs (other than collapses)	No	Α	No	Α

Rocking back	Less than 45°	Α	Less than 45°	Α
Line tension	Most lines tight	Α	Most lines tight	Α
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°	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	Α	No	Α
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°	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	Α	No	Α
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	Α	No	Α
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	Α	No	Α
15. Directional control with a maintained asymmetric collapse	A			
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	Α			
Spin occurs	No	Α	No	Α
17. Low speed spin tendency Spin occurs	A No	Α	No	Α
18. Recovery from a developed spin	A			
Spin rotation angle after release	Stops spinning in less than 90°	Α	Stops spinning in less than 90°	Α
Cascade occurs	No	Α	No	Α
19. B-line stall	Α			
Change of course before release	Changing course less than 45°	Α	Changing course less than 45°	Α
Behaviour before release	Remains stable with straight span	Α	Remains stable with straight span	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
Cascade occurs	No	Α	No	Α
20. Big ears	В			
Entry procedure	Dedicated controls	Α	Dedicated controls	Α
Behaviour during big ears	Stable flight	Α	Stable flight	Α
Recovery	Spontaneous in 3 s to 5 s	В	Spontaneous in less than 3 s	Α
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
21. Big ears in accelerated flight	В			
Entry procedure	Dedicated controls	Α	Dedicated controls	Α
Behaviour during big ears	Stable flight	Α	Stable flight	Α
Recovery	Recovery through pilot action in less than a further 3 s	В	Spontaneous in 3 s to 5 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	Α			
Procedure works as described	Yes	Α	Yes	Α
Procedure suitable for novice pilots	Yes	Α	Yes	Α
Cascade occurs	No	Α	No	Α