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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_2417.2024

30.04.2024

Flight test

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

	Glider model Serial number Trimmer Folding lines used	16 Barnes Green EH54 8PP Livingston United Kingdom MagMax 3 38 PRTAN-Y-50D-011 Opened no		Classification Representative Place of test		B Honorin Villeneuve	
Test pilot		Alexandre Jofresa			Claude Thurnheer		
Harness Harness to risers distance [cm] Distance between risers [cm] Length of rigid spreaders [cm] Total weight in flight [kg]		Advance Thur 43 55 0 110	n AG Success 4 M		Advance Thun AG Bi-pro 3 M 42 55 31 190		
	1. Inflation/Take-off Rising behaviour		B Smooth, easy and constant rising A			Easy rising, some pilot correction is required	В
	Special take off technique	required	No		Α	No	Α
	2. Landing Special landing technique required		A No		A	No	Α
	3. Speed in straight flight Trim speed more than 30 k		B Yes		Α	Yes	А
	Speed range using the controls larger than 10 km/h		Yes		Α	Yes	Α
	Minimum speed		Less than 25 km/h		Α	25 km/h to 30 km/h	В
4. Control movement Max. weight in flight up to 80 kg Symmetric control pressure / travel		A not available		0	not available	0	
	Max. weight in flight 80 k Symmetric control pressure		not available		0	not available	0
	Max. weight in flight great Symmetric control pressure	-	Increasing / greater th	an 65 cm	Α	Increasing / greater than 65 cm	Α
	5. Pitch stability exiting a Dive forward angle on exit		0 not available		0	not available	0
	Collapse occurs		not available		0	not available	0
6. Pitch stability operating controls during		0					
	accelerated flight Collapse occurs		not available		0	not available	0
	7. Roll stability and damp Oscillations	oing	A Reducing		Α	Reducing	Α
	8. Stability in gentle spira		A Spontaneous exit		A	Spontaneous exit	A
	Tendency to return to strai	gnt mgnt					

Behaviour exiting a fully developed spiral dive	A	٨	Immediate reduction of sets of	
nitial response of glider (first 180°)	Immediate reduction of rate of turn	Α	Immediate reduction of rate of turn	,
endency to return to straight flight	Spontaneous exit (g force decreasing, rate of turn decreasing)	Α	Spontaneous exit (g force decreasing, rate of turn decreasing)	,
urn angle to recover normal flight	Less than 720°, spontaneous recovery	Α	Less than 720°, spontaneous recovery	
0. Symmetric front collapse opproximately 30 % chord	В			
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	
Recovery	Spontaneous in 3 s to 5 s	В	Spontaneous in 3 s to 5 s	
Dive forward angle on exit Change of course	Dive forward 0° to 30° / Keeping course	Α	Dive forward 0° to 30° / Keeping course	
Cascade occurs	No	Α	No	
Folding lines used	No	Α	No	
At least 50% chord Entry	Rocking back less than 45°	Α	Rocking back less than 45°	
Recovery	Spontaneous in 3 s to 5 s	В	Spontaneous in 3 s to 5 s	
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	Α	Dive forward 0° to 30° / Keeping course	
Cascade occurs	No	Α	No	
olding lines used	No	Α	No	
Vith accelerator				
entry	not available	0	not available	
Recovery	not available	0	not available	
live forward angle on exit / Change of course	not available	0	not available	
Cascade occurs	not available	0	not available	
olding lines used	Not available	0	Not available	
1. Exiting deep stall (parachutal stall)	B			
Deep stall achieved	Yes		Yes	
Recovery	Spontaneous in less than 3 s		Spontaneous in less than 3 s	
live forward angle on exit	Dive forward 0° to 30°	A	Dive forward 30° to 60°	
Change of course	Changing course less than 45°		Changing course less than 45°	
Cascade occurs	No	Α	No	
2. High angle of attack recovery lecovery	A Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	
Cascade occurs	No	Α	No	
3. Recovery from a developed full stall live forward angle on exit	B Dive forward 0° to 30°	Α	Dive forward 30° to 60°	
Collapse	No collapse	Α	No collapse	
Cascade occurs (other than collapses)	No	Α	No	

Rocking back	Less than 45°	Α	Less than 45°	Α
Line tension	Most lines tight	Α	Most lines tight	Α
14. Asymmetric collapse Small asymmetric collapse	В			
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 0° to 15°	Α	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
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	Α	No	Α
Small asymmetric collapse with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	not available	0	not available	0
Re-inflation behaviour	not available	0	not available	0
Total change of course	not available	0	not available	0
Collapse on the opposite side occurs	not available	0	not available	0
Twist occurs	not available	0	not available	0
Cascade occurs	not available	0	not available	0
Folding lines used	Not available	0	Not available	0
Large asymmetric collapse with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	not available	0	not available	0
Re-inflation behaviour	not available	0	not available	0
Total change of course	not available	0	not available	0
Collapse on the opposite side occurs	not available	0	not available	0
Twist occurs	not available	0	not available	0
Cascade occurs	not available	0	not available	0

Folding lines used	Not available	0	Not available	0
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	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	A			
Change of course before release	Changing course less than 45°	Α	not available	0
Behaviour before release	Remains stable with straight span	Α	not available	0
Recovery	Spontaneous in less than 3 s	Α	not available	0
Dive forward angle on exit	Dive forward 0° to 30°	Α	not available	0
Cascade occurs	No	Α	not available	0
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 3 s to 5 s	В
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
21. Big ears in accelerated flight	0			
Entry procedure	not available	0	not available	0
Behaviour during big ears	not available	0	not available	0
Recovery	not available	0	not available	0
Dive forward angle on exit	not available	0	not available	0
Behaviour immediately after releasing the accelerator while maintaining big ears	not available	0	not available	0
22. Alternative means of directional control	Α			
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