

Flight test report: EN 926-2:2013

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	Manufacturer	Ozone Gliders	Certification number		PG_0989.2015	
	Address	2, Queens Drive	Date of flight test		29. 09. 2015	
		LA46LN.	C C			
		UK				
	Glider model Mojo PWR XL		Classification		Α	
		Mojo PWR XL				
	Serial number	PR1-R-11E-015	Representative		Russel Ogden	
	Trimmer	yes: closed	Place of test		Villeneuve	
	Test pilot		Zoller Alain		Berruex Gilles	
	Harness		Supair - Access M		Niviuk - Hamak XL	
	Harness to risers distance (cm) Distance between risers (cm)		43 46		43 46	
	Total weight in flight (kg)		110		130	
	1. Inflation/Take-off		Α			
	Rising behaviour		Smooth, easy and constant rising	А	Smooth, easy and constant rising	А
	Special take off technique required		No	А	No	А
	2. Landing		Α			
	Special landing technique required		No	А	No	А
	3. Speed in straight flight		Α			
	Trim speed more than 30 km/h		Yes	А	Yes	А
	Speed range using the controls larger than 10 km/h		Yes	А	Yes	A
	Minimum speed		Less than 25 km/h	А	Less than 25 km/h	А
	4. Control movement		Α			
	Max. weight in flight up to 80 kg					
	Symmetric control pressure / travel		not available	0	not available	0
	Max waight in flight 90 k	a to 100 kg				
	Max. weight in flight 80 kg to 100 kg Symmetric control pressure / travel		not available	0	not available	0
	Symmetric control pressure			U		0
	Max. weight in flight greater than 100 kg					
	Symmetric control pressure / travel		Increasing / greater than 65 cm	А	Increasing / greater than 65 cm	А
	5. Pitch stability exiting accelerated flight		Α			
	Dive forward angle on exit		Dive forward less than 30°	Α	Dive forward less than 30°	Α
	Collapse occurs		No	А	No	A
	6. Pitch stability operating	g controls during accelerated	Α			
	Collapse occurs		No	А	No	А
	7. Roll stability and damp	ing	Α			
	Oscillations		Reducing	А	Reducing	А
	8. Stability in gentle spirals		Α			
	Tendency to return to straight flight		Spontaneous exit	А	Spontaneous exit	А
	9. Behaviour exiting a fully developed spiral dive		Α			
	Initial response of glider (fir	'st 180°)	Immediate reduction of rate of turn	A	Immediate reduction of rate of turn	A
	Tendency to return to straig	ght flight	Spontaneous exit (g force decreasing, rate of turn decreasing)	A	Spontaneous exit (g force decreasing, rate of turn decreasing)	A
	Turn angle to recover norm	al flight	Less than 720°, spontaneous	А	Less than 720°, spontaneous	А
			recovery		recovery	

10. Symmetric front collapse

Α

Approximately 30 % chord Entry Rocking back less than 45° A Rocking back less than 45° A Rocking back less than 3 s A Entry 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 Folding lines used No A No A No A At least 50% chord Entry Rocking back less than 45° A Rocking back less than 3 s A Entry Rocking back less than 45° A Rocking back 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 Course Course Course A No <
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12. High angle of attack recoveryARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sA
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 exitDive forward 0° to 30°ADive forward 0° to 30°A
Collapse No collapse A No collapse A
Cascade occurs (other than collapses) No A No A
Rocking backLess than 45°ALess than 45°A
Line tension Most lines tight A Most lines tight A
14. Asymmetric collapse A
Small asymmetric collapse
Change of course until re-inflation / Maximum dive forward or Less than 90° / Dive or roll angle A 90° to 180° / Dive or roll angle 0° to A
roll angle 0° to 15° 15°
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 spontaneous reinflation) A 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 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 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 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 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 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 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 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 No (or only a small number of collapsed cells with a spontaneous reinflation)
Twist occurs No A No A
Cascade occurs No A No A
Folding lines used No A No A
Large asymmetric collapse
Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Less than 90° / Dive or roll angle A Less than 90° / Dive or roll angle A Iso to 45° 15° to 45° 15° to 45° 15° to 45°
Change of course until re-inflation / Maximum dive forward or Less than 90° / Dive or roll angle A Less than 90° / Dive or roll angle 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	А	No	А
	Cascade occurs	No	А	No	А
	Folding lines used	No	А	No	А
	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 0° to 15°	A
	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	А	No	А
	Cascade occurs	No	А	No	А
	Folding lines used	No	А	No	А
	Large 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	А	Spontaneous re-inflation	А
	Total change of course	Less than 360°	А	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	А	No	А
	Cascade occurs	No	А	No	А
	Folding lines used	No	А	No	А
	15. Directional control with a maintained asymmetric collapse	Α			
	Able to keep course	Yes	А	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	А	More than 50 % of the symmetric control travel	А
		A			
	Spin occurs	No	А	No	А
	17. Low speed spin tendency	Α			
	Spin occurs	No	А	No	А
•		Α			
	Spin rotation angle after release	Stops spinning in less than 90°	А	Stops spinning in less than 90°	А
	Cascade occurs	No	А	No	А
	19. B-line stall	Α			
	Change of course before release	Changing course less than 45°	А	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	А	Spontaneous in less than 3 s	А
	Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
	Cascade occurs	No	А	No	А
20. Big ears		Α			
	Entry procedure	Dedicated controls	А	Dedicated controls	А
	Behaviour during big ears	Stable flight	А	Stable flight	А
	Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
	Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
	21. Big ears in accelerated flight	A			
	Entry procedure	Dedicated controls	A	Dedicated controls	A
	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°	A

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24. Comments of test pilot

Comments