

Flight test report: EN 926-2:2013

Manufacturer	Ozone Gliders	Certification number		PG_0882.2014	
Address	2, Queens Drive	Date of flight test		21. 08. 2014	
	LA46LN .	3			
	UK				
Glider model	Swift 4 ML	Classification		В	
Serial number	PR12-P-30A-025ML	Representative		None	
Trimmer	no	Place of test		Villeneuve	
Test pilot		Thurnheer Claude		Zoller Alain	
Harness		Gin Gliders - Gingo 2 M		Sup' Air - Altiplume L	
Harness to risers dis	stance (cm)	43		43	
Distance between ris	sers (cm)	44		46	
Total weight in flight		85		105	
i otal noight in high	(1.9)			100	
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 r	required	No	А	No	А
3. Speed in straight flight		Α			
Trim speed more than 30 k	m/h	Yes	А	Yes	А
Speed range using the con	trols larger than 10 km/h	Yes	А	Yes	А
Minimum speed		Less than 25 km/h	А	Less than 25 km/h	А
4. Control movement		Α			
4. Control movement		A			
	2 80 kg	~			
Max. weight in flight up to			0	not available	0
		not available	0	not available	0
Max. weight in flight up to	e / travel		0	not available	0
Max. weight in flight up to Symmetric control pressure	e / travel g to 100 kg		0 A	not available not available	0
Max. weight in flight up to Symmetric control pressure Max. weight in flight 80 kg Symmetric control pressure	e / travel g to 100 kg e / travel	not available			
Max. weight in flight up to Symmetric control pressure Max. weight in flight 80 kg Symmetric control pressure Max. weight in flight grea	e / travel g to 100 kg e / travel ter than 100 kg	not available Increasing / greater than 60 cm	A	not available	0
Max. weight in flight up to Symmetric control pressure Max. weight in flight 80 k Symmetric control pressure Max. weight in flight grea Symmetric control pressure	e / travel g to 100 kg e / travel ter than 100 kg e / travel	not available			
Max. weight in flight up to Symmetric control pressure Max. weight in flight 80 kg Symmetric control pressure Max. weight in flight great Symmetric control pressure 5. Pitch stability exiting a	e / travel g to 100 kg e / travel ter than 100 kg e / travel	not available Increasing / greater than 60 cm not available A	A 0	not available Increasing / greater than 65 cm	0 A
Max. weight in flight up to Symmetric control pressure Max. weight in flight 80 kg Symmetric control pressure Max. weight in flight great Symmetric control pressure 5. Pitch stability exiting a Dive forward angle on exit	e / travel g to 100 kg e / travel ter than 100 kg e / travel	not available Increasing / greater than 60 cm not available A Dive forward less than 30°	A 0 A	not available Increasing / greater than 65 cm Dive forward less than 30°	0 A A
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Max. weight in flight up to Symmetric control pressure Max. weight in flight 80 kg Symmetric control pressure Max. weight in flight great Symmetric control pressure 5. Pitch stability exiting at Dive forward angle on exit Collapse occurs 6. Pitch stability operating flight Collapse occurs 7. Roll stability and damp Oscillations 8. Stability in gentle spirat Tendency to return to straig	e / travel g to 100 kg e / travel ter than 100 kg e / travel ccelerated flight g controls during accelerated sing lls ght flight	not available Increasing / greater than 60 cm not available A Dive forward less than 30° No A No A No	A O A A	not available Increasing / greater than 65 cm Dive forward less than 30° No	0 A A A A
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Max. weight in flight up to Symmetric control pressure Max. weight in flight 80 kg Symmetric control pressure Max. weight in flight great Symmetric control pressure 5. Pitch stability exiting at Dive forward angle on exit Collapse occurs 6. Pitch stability operating flight Collapse occurs 7. Roll stability and damp Oscillations 8. Stability in gentle spirat Tendency to return to straig	e / travel g to 100 kg e / travel ter than 100 kg e / travel ccelerated flight g controls during accelerated sing lls ght flight ly developed spiral dive	not available Increasing / greater than 60 cm not available A Dive forward less than 30° No A No A Reducing A Spontaneous exit	A 0 A A A A	not available Increasing / greater than 65 cm Dive forward less than 30° No No Reducing	0 A A A A
Max. weight in flight up to Symmetric control pressure Max. weight in flight 80 kg Symmetric control pressure Max. weight in flight great Symmetric control pressure 5. Pitch stability exiting a Dive forward angle on exit Collapse occurs 6. Pitch stability operating flight Collapse occurs 7. Roll stability and damp Oscillations 8. Stability in gentle spirat Tendency to return to straig 9. Behaviour exiting a full	e / travel g to 100 kg e / travel ter than 100 kg e / travel ccelerated flight g controls during accelerated sing lls ght flight ly developed spiral dive st 180°)	not availableIncreasing / greater than 60 cmnot availableADive forward less than 30°NoAReducingAReducingASpontaneous exitAImmediate reduction of rate of turnSpontaneous exit (g force decreasing, rate of turn	A 0 A A A A	not available Increasing / greater than 65 cm Dive forward less than 30° No No Reducing Spontaneous exit	0 A A A A A A
Max. weight in flight up to Symmetric control pressure Max. weight in flight 80 kg Symmetric control pressure Max. weight in flight great Symmetric control pressure 5. Pitch stability exiting a Dive forward angle on exit Collapse occurs 6. Pitch stability operating flight Collapse occurs 7. Roll stability and damp Oscillations 8. Stability in gentle spirat Tendency to return to straig 9. Behaviour exiting a ful Initial response of glider (fin	e / travel g to 100 kg e / travel ter than 100 kg e / travel ccelerated flight g controls during accelerated sing lls ght flight ly developed spiral dive rst 180°) ght flight	 not available Increasing / greater than 60 cm not available A Dive forward less than 30° No A Reducing A Spontaneous exit A Immediate reduction of rate of turn Spontaneous exit (g force 	A 0 A A A A A	not available Increasing / greater than 65 cm Dive forward less than 30° No No Reducing Spontaneous exit Immediate reduction of rate of turn Spontaneous exit (g force	0 A A A A A A A

10. Symmetric front collapse

в

Approximately 30 % 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	А
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	А	No	А
Folding lines used	No	А	No	А
At least 50% chord				
Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
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 30° to 60° /	В	Dive forward 0° to 30° / Keeping	A
	Keeping course		course	
Cascade occurs	No	A	No	A
Folding lines used	No	A	No	A
With accelerator				
Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery	Spontaneous in 3 s to 5 s	В	Spontaneous in less than 3 s	А
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	А	Dive forward 0° to 30° / Keeping course	А
Cascade occurs	No	А	No	А
Folding lines used	No	А	No	А
11. Exiting deep stall (parachutal stall)	Α			
Deep stall achieved	Yes	А	Yes	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
Change of course	Changing course less than 45°	А	Changing course less than 45°	А
Cascade occurs	No	А	No	А
12. High angle of attack recovery	Α			
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Cascade occurs	No	А	No	А
13. Recovery from a developed full stall	Α			
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	А
Collapse	No collapse	A	No collapse	А
Cascade occurs (other than collapses)	No	A		A
Rocking back	Less than 45°	A	Less than 45°	A
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° $$	А
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	А	No (or only a small number of	А
	collapsed cells with a spontaneous reinflation)		collapsed cells with a spontaneous reinflation)	
Twist occurs	No	Α	No	А
Cascade occurs	No	Α	No	А
Folding lines used	No	A	No	А
Large asymmetric collapse				
Change of course until re-inflation / Maximum dive forward or	90° to 180° / Dive or roll angle	В	Less than 90° / Dive or roll angle	А
roll angle	15° to 45°		15° to 45°	
				-
Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	A
Re-inflation behaviour Total change of course	Spontaneous re-inflation Less than 360°	A A	Spontaneous re-inflation Less than 360°	A 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 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	A
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
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	А	Spontaneous re-inflation	A
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	A	More than 50 % of the symmetric control travel	A
16. Trim speed spin tendency	Α			
Spin occurs	No	А	No	А
17. Low speed spin tendency	Α			
Spin occurs	No	А	No	А
18. Recovery from a developed spin	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	В			
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	A
Recovery	Spontaneous in 3 s to 5 s	В	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	В			
Entry procedure	Dedicated controls	А	Dedicated controls	А
Behaviour during big ears	Stable flight	Α	Stable flight	A
Recovery	Recovery through pilot action in less than a further 3 s	В	Spontaneous in less than 3 s	A
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
21. Big ears in accelerated flight	Α			
Entry procedure	Dedicated controls	А	Dedicated controls	А
Behaviour during big ears	Stable flight	А	Stable flight	А
Recovery	Spontaneous in 3 s to 5 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°	۸
	Dive loiward 0 to 30	~		А

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Α
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24. Comments of test pilot

Comments