

Flight test report: EN 926-2:2013

ManufacturerSupair SàrlCertification numberPG_0991.2015AddressParc Altais / 34 rue Adrastée 74650 Chavanod FranceDate of flight test04. 11. 2015Glider modelLeaf XSClassificationBSerial numberB9-0915-XSRepresentativeNoneTrimmernoPlace of testVilleneuveTest pilotFukuoka SeikoThurnheer ClaudeHarnessFlugsau - LightsauSup' Air - Access MHarness to risers distance (cm)3943Distance between risers (cm)4044Total weight in flight (kg)Smooth, easy and constant rising NoA Smooth, easy and constant rising Special take off technique requiredNo1. Inflation/Take-offANoARising behaviour Special landing technique requiredNoANo3. Speed in straight flightANoATim speed more than 30 km/hYesAYesSpeed range using the controls larger than 10 km/hYesAYesMinimum speedLess than 25 km/hALess than 25 km/h	
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Trim speed more than 30 km/hYesAYesSpeed range using the controls larger than 10 km/hYesAYes	А
Speed range using the controls larger than 10 km/h Yes A Yes	
	Α
Minimum speed Less than 25 km/h A Less than 25 km/h	A
A O su fuel us su su f	А
4. Control movement A	
Max. weight in flight up to 80 kg	
Symmetric control pressure / travel Increasing / greater than 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	А
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° A Dive forward less than 30°	А
Collapse occurs No A No	А
6. Pitch stability operating controls during accelerated A flight	
Collapse occurs No A No	А
7. Roll stability and damping A	
Oscillations Reducing A Reducing	А
8. Stability in gentle spirals A	
Tendency to return to straight flight Spontaneous exit A Spontaneous exit	А
9. Behaviour exiting a fully developed spiral dive A	
Initial response of glider (first 180°) Immediate reduction of rate of A Immediate reduction of rate of turn	rn A
Tendency to return to straight flight Spontaneous exit (g force decreasing, rate of turn decreasing, rate of turn decreasing) A Spontaneous exit (g force decreasing, rate of turn decreasing)	
Turn angle to recover normal flight Less than 720°, spontaneous recovery A Less than 720°, spontaneous recovery	A ng)

10. Symmetric front collapse

Α

Approximately 30 % chord	5			
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
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
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	А	Spontaneous in less than 3 s	А
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	Α	Dive forward 0° to 30° / Keeping course	А
Cascade occurs	No	А	No	А
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 less than 3 s	А	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
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°	А	Dive forward 0° to 30°	А
Collapse	No collapse	А	No collapse	А
Cascade occurs (other than collapses)	No	^	No	
Rocking back		А	No	А
	Less than 45°	A	Less than 45°	A A
Line tension	Less than 45° Most lines tight			
Line tension 14. Asymmetric collapse		А	Less than 45°	А
14. Asymmetric collapse	Most lines tight	А	Less than 45°	А
14. Asymmetric collapse Small asymmetric collapse	Most lines tight B	A A	Less than 45° Most lines tight	A A
14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle	Most lines tight B Less than 90° / Dive or roll angle 15° to 45°	A A	Less than 45° Most lines tight Less than 90° / Dive or roll angle 15° to 45°	A A
 14. Asymmetric collapse <i>Small asymmetric collapse</i> Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour 	Most lines tight B Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation	A A	Less than 45° Most lines tight Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation	A A A
 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course 	Most lines tight B Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360°	A A A A	Less than 45° Most lines tight Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360°	A A A A
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 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs Folding lines used 	Most lines tight B Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No	A A A A A A A	Less than 45° Most lines tight Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No	A A A A A A A A
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 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs Folding lines used Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or 	Most lines tight B Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No Less than 90° / Dive or roll angle	A A A A A A A A	Less than 45° Most lines tight Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No	A A A A A A 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	Α	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	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
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	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	A	Yes	A
Amount of control range between turn and stall or spin	More than 50 % of the	A	More than 50 % of the symmetric	A
	symmetric control travel		control travel	~
16. Trim speed spin tendency	Α			
Spin occurs	No	A	No	A
17. Low speed spin tendency	Α			
Spin occurs	No	A	No	A
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°	A
Cascade occurs	No	A	No	A
19. B-line stall	Α			
Change of course before release	Changing course less than 45°	Α	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	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	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

А
Α
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24. Comments of test pilot

Comments