Symmetric control pressure / travel

Turn angle to recover normal flight



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> Α Α В

Α

Α

0 Increasing / greater than 60 cm

Less than 720°, spontaneous

recovery

## Flight test report: EN 926-2:2013

Manufacturer	Supair Sàrl	Certification number	PG_0966.2015
Address	Parc Altais / 34 rue	Date of flight test	16. 07. 2015

Manufacturer	Supair Sarl	Certification number		PG_0966.2015	
Address	Parc Altais / 34 rue Adrastée 74650 Chavanod France	Date of flight test		16. 07. 2015	
Glider model	Eiko 20	Classification		В	
Serial number	EK 20 0615 06	Representative		Jean-Christophe Skiera	
Trimmer	no	Place of test		Villeneuve	
Test pilot		Light pilot under Air Turquoise supervision		Thurnheer Claude	
Harness		Flugsau - Lightsau		Sup' Air - Access M	
Harness to risers dis	stance (cm)	41		43	
Distance between ris	sers (cm)	40		44	
Total weight in flight	: (kg)	50		80	
1. Inflation/Take-off		A			
Rising behaviour		Smooth, easy and constant rising	Α	Smooth, easy and constant rising	
Special take off technique r	required	No	Α	No	
2. Landing		Α			
Special landing technique r	•	No	Α	No	
3. Speed in straight flight		В			
Trim speed more than 30 kg		Yes	Α	Yes	
Speed range using the conf	trols larger than 10 km/h	Yes	Α	Yes	
Minimum speed		Less than 25 km/h	Α	25 km/h to 30 km/h	
4. Control movement		Α			
Max. weight in flight up to	o 80 kg				
Symmetric control pressure	=	Increasing / greater than 55 cm	Α	not available	

wax. weight in hight up to 60 kg				_
Symmetric control pressure / travel	Increasing / greater than 55 cm	Α	not available	0
Max. weight in flight 80 kg to 100 kg				

not available

Max. weight in flight greater than 100 kg				
Symmetric control pressure / travel	not available	0	not available	0
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	Α	No	Α
6. Pitch stability operating controls during accelerated flight	A			
Collapse occurs	No	Α	No	Α
7. Roll stability and damping	A			
Oscillations	Reducing	Α	Reducing	Α
8. Stability in gentle spirals	Α			
Tendency to return to straight flight	Spontaneous exit	Α	Spontaneous exit	Α
9. Behaviour exiting a fully developed spiral dive	В			
Initial response of glider (first 180°)	No immediate reaction	В	No immediate reaction	В
Tendency to return to straight flight	Spontaneous exit (g force decreasing, rate of turn decreasing)	Α	Spontaneous exit (g force decreasing, rate of turn decreasing)	Α

recovery

Less than 720°, spontaneous

10. Cymmetric from conapse	5			
Approximately 30 % chord				
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Dive forward angle on exit Change of course	Dive forward 0° to 30° Keeping course	Α	Dive forward 0° to 30° Keeping course	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No	Α	No	Α
At least 50% chord				
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	Α	Dive forward 0° to 30° / Keeping course	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No	Α	No	Α
With accelerator				
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	Α	Dive forward 30° to 60° / Keeping course	В
Cascade occurs	No	Α	No	Α
Folding lines used	No	Α	No	Α
11. Exiting deep stall (parachutal stall)	A			
Deep stall achieved	Yes	Α	Yes	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
Change of course	Changing course less than 45°	Α	Changing course less than 45°	Α
Cascade occurs	No	A A	Changing course less than 45° No	A
Cascade occurs  12. High angle of attack recovery	No A		No	Α
Cascade occurs  12. High angle of attack recovery Recovery	No A Spontaneous in less than 3 s	A	No Spontaneous in less than 3 s	A
Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs	No A Spontaneous in less than 3 s No	A	No	Α
Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs  13. Recovery from a developed full stall	No A Spontaneous in less than 3 s No B	A A A	No Spontaneous in less than 3 s No	A A A
Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit	No A Spontaneous in less than 3 s No B Dive forward 30° to 60°	A A A	No Spontaneous in less than 3 s No Dive forward 30° to 60°	A A A
Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit Collapse	No A Spontaneous in less than 3 s No B Dive forward 30° to 60° No collapse	A A B A	No Spontaneous in less than 3 s No Dive forward 30° to 60° No collapse	A A A
Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses)	No A Spontaneous in less than 3 s No B Dive forward 30° to 60° No collapse No	A A B A	No Spontaneous in less than 3 s No Dive forward 30° to 60° No collapse No	A A B A
Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back	No A Spontaneous in less than 3 s No B Dive forward 30° to 60° No collapse No Less than 45°	A A B A A	No Spontaneous in less than 3 s No Dive forward 30° to 60° No collapse No Less than 45°	A A B A A
Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension	No A Spontaneous in less than 3 s No B Dive forward 30° to 60° No collapse No Less than 45° Most lines tight	A A B A	No Spontaneous in less than 3 s No Dive forward 30° to 60° No collapse No	A A B A
Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension  14. Asymmetric collapse	No A Spontaneous in less than 3 s No B Dive forward 30° to 60° No collapse No Less than 45°	A A B A A	No Spontaneous in less than 3 s No Dive forward 30° to 60° No collapse No Less than 45°	A A B A A
Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension  14. Asymmetric collapse  Small asymmetric collapse	No A Spontaneous in less than 3 s No B Dive forward 30° to 60° No collapse No Less than 45° Most lines tight A	A A B A A A	No Spontaneous in less than 3 s No Dive forward 30° to 60° No collapse No Less than 45° Most lines tight	A A A A A A
Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension  14. Asymmetric collapse  Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle	No A Spontaneous in less than 3 s No B Dive forward 30° to 60° No collapse No Less than 45° Most lines tight A Less than 90° / Dive or roll angle 0° to 15°	A A A A A A	No Spontaneous in less than 3 s No  Dive forward 30° to 60° No collapse No Less than 45° Most lines tight  Less than 90° / Dive or roll angle 0° to 15°	A A A A A A
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Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension  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	No A Spontaneous in less than 3 s No B Dive forward 30° to 60° No collapse No Less than 45° Most lines tight A Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation)	A A A A A A A	No Spontaneous in less than 3 s No  Dive forward 30° to 60° No collapse No Less than 45° Most lines tight  Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation)	A A A A A A A A
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Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension  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	No A Spontaneous in less than 3 s No B Dive forward 30° to 60° No collapse No Less than 45° Most lines tight A  Less than 90° / Dive or roll angle 0° to 15° 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 A A A A A A A A A A A A	No  Spontaneous in less than 3 s  No  Dive forward 30° to 60°  No collapse  No Less than 45°  Most lines tight  Less than 90° / Dive or roll angle 0° to 15°  Spontaneous re-inflation Less than 360°  No (or only a small number of collapsed cells with a spontaneous re-inflation)  No  No	A A A A A A A A
Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension  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	No A Spontaneous in less than 3 s No B Dive forward 30° to 60° No collapse No Less than 45° Most lines tight A Less than 90° / Dive or roll angle 0° to 15° 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 A A	No Spontaneous in less than 3 s No  Dive forward 30° to 60° No collapse No Less than 45° Most lines tight  Less than 90° / Dive or roll angle 0° to 15° 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 A
Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension  14. 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	No A Spontaneous in less than 3 s No B Dive forward 30° to 60° No collapse No Less than 45° Most lines tight A Less than 90° / Dive or roll angle 0° to 15° 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 A	No  Spontaneous in less than 3 s  No  Dive forward 30° to 60°  No collapse  No  Less than 45°  Most lines tight  Less than 90° / Dive or roll angle 0° to 15°  Spontaneous re-inflation  Less than 360°  No (or only a small number of collapsed cells with a spontaneous reinflation)  No  No  No  No  Less than 90° / Dive or roll angle	A A A A A A A A
Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension  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 roll angle	No A Spontaneous in less than 3 s No B Dive forward 30° to 60° No collapse No Less than 45° Most lines tight A Less than 90° / Dive or roll angle 0° to 15° 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 15° to 45°	A A A A A A A A A A A A A A A A A A A	No Spontaneous in less than 3 s No  Dive forward 30° to 60° No collapse No Less than 45° Most lines tight  Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No No Less than 90° / Dive or roll angle 15° to 45°	A A A A A A A A A A A A A A A A A A A
Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension  14. 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	No A Spontaneous in less than 3 s No B Dive forward 30° to 60° No collapse No Less than 45° Most lines tight A Less than 90° / Dive or roll angle 0° to 15° 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 A	No  Spontaneous in less than 3 s  No  Dive forward 30° to 60°  No collapse  No  Less than 45°  Most lines tight  Less than 90° / Dive or roll angle 0° to 15°  Spontaneous re-inflation  Less than 360°  No (or only a small number of collapsed cells with a spontaneous reinflation)  No  No  No  No  Less than 90° / Dive or roll angle	A A A A A A A A A

В

10. Symmetric front collapse

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	A	No	A
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 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 with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or	Less than 90° / Dive or roll angle	Α	Less than 90° / Dive or roll angle	Α
roll angle	15° to 45°	А	15° to 45°	А
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	A			
collapse	V		V	
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	A			
Spin occurs	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	A
19. B-line stall	<b>A</b>	^	NO	^
			Observing secures less than 45°	
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	A			
Entry procedure	Dedicated controls	Α	Dedicated controls	Α
Behaviour during big ears	Stable flight	Α	Stable flight	Α
	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	A
Recovery	·			
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
21. Big ears in accelerated flight	A Darlington de australia		Dadiested early	
Entry procedure	Dedicated controls	A	Dedicated controls	A
Behaviour during big ears	Stable flight	Α	Stable flight	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

Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	А	Stable flight	Α
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	0			
Procedure works as described	not available	0	not available	0
Procedure suitable for novice pilots	not available	0	not available	0
Cascade occurs	not available	0	not available	0

## 24. Comments of test pilot

Comments