

Air Turquoise SA Rte du Pré-au-Comte 8 | CH-1844 Villeneuve tel. +41 21 965 65 65 | mobile +41 79 202 52 30 info@para-test.com

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

Manufacturer Address	ADVANCE Thun AG Uttigenstrasse 87 3600 Thun Switzerland	Certification number Date of flight test		PG_0982.2015 21. 09. 2015	
Glider model	Epsilon 8 25	Classification		В	
Serial number	63928	Representative		Kari Eisenhut	
Trimmer	no	Place of test		Villeneuve	
Test pilot Harness Harness to risers distance (cm) Distance between risers (cm) Total weight in flight (kg)		Dupont Philippe Supair - Access M 42 40 70		Zoller Alain Gin Gliders - Gingo 2 L 43 46 100	
1. Inflation/Take-off		A			
Rising behaviour		Smooth, easy and constant rising	Α	Smooth, easy and constant rising	Α
Special take off technique	required	No	Α	No	Α
2. Landing		Α			
Special landing technique required		No	Α	No	Α
3. Speed in straight fligh	t	Α			
Trim speed more than 30 I	km/h	Yes	Α	Yes	Α
Speed range using the cor	ntrols larger than 10 km/h	Yes	Α	Yes	Α
Minimum speed		Less than 25 km/h	Α	Less than 25 km/h	Α
4. Control movement		Α			
Max. weight in flight up t	to 80 kg				
Symmetric control pressure / travel		Increasing / greater than 55 cm	Α	not available	0
Max weight in flight 80 k	sa to 100 ka				
Max. weight in flight 80 kg to 100 kg  Symmetric control pressure / travel		not available	0	Increasing / greater than 60 cm	Α
Cymmetric control pressur	c / liavei	not available	U	mercasing / greater than 60 cm	^
Max. weight in flight grea	ater than 100 kg				
Symmetric control pressur	e / travel	not available	0	not available	0
5. Pitch stability exiting a	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 operatin	ng controls during accelerated	Α			
Collapse occurs		No	Α	No	Α
7. Roll stability and damp	ping	A			
Oscillations		Reducing	Α	Reducing	Α
8. Stability in gentle spira	als	Α			
Tendency to return to straight flight		Spontaneous exit	Α	Spontaneous exit	Α
9. Behaviour exiting a fu	lly developed spiral dive	В			
Initial response of glider (first 180°)		No immediate reaction	В	Immediate reduction of rate of turn	Α
Tendency to return to strai	ght flight	Spontaneous exit (g force decreasing, rate of turn decreasing)	Α	Spontaneous exit (g force decreasing, rate of turn decreasing)	Α
Turn angle to recover normal flight		720° to 1 080°, spontaneous recovery	В	Less than 720°, spontaneous recovery	Α

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 an along the				
With accelerator	Dealing beat less than 450		Dealing healther than 450	•
Entry	Rocking back less than 45°	A	Rocking back less than 45°	A
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
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	Α	No	Α
12. High angle of attack recovery	A			
12. High angle of attack recovery Recovery	A Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
		A A	Spontaneous in less than 3 s No	A A
Recovery Cascade occurs 13. Recovery from a developed full stall	Spontaneous in less than 3 s		•	
Recovery Cascade occurs	Spontaneous in less than 3 s No		•	
Recovery Cascade occurs 13. Recovery from a developed full stall	Spontaneous in less than 3 s No	A	No	A
Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit	Spontaneous in less than 3 s No  A  Dive forward 0° to 30°	A	No  Dive forward 0° to 30°	A
Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit Collapse	Spontaneous in less than 3 s No  A  Dive forward 0° to 30°  No collapse	A A A	No  Dive forward 0° to 30°  No collapse	A A A
Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses)	Spontaneous in less than 3 s No  A  Dive forward 0° to 30°  No collapse No	A A A	No  Dive forward 0° to 30°  No collapse  No	A A A
Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back	Spontaneous in less than 3 s No  A Dive forward 0° to 30° No collapse No Less than 45°	A A A A	No  Dive forward 0° to 30°  No collapse  No Less than 45°	A A A A
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	Spontaneous in less than 3 s No  A Dive forward 0° to 30° No collapse No Less than 45° Most lines tight	A A A A	No  Dive forward 0° to 30°  No collapse  No Less than 45°	A A A A
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	Spontaneous in less than 3 s No  A Dive forward 0° to 30° No collapse No Less than 45° Most lines tight A	A A A A	No  Dive forward 0° to 30°  No collapse  No Less than 45°  Most lines tight	A A A A
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	Spontaneous in less than 3 s No  A Dive forward 0° to 30° No collapse No Less than 45° Most lines tight A  Less than 90° / Dive or roll angle 0° to 15°	A A A A	No  Dive forward 0° to 30°  No collapse  No Less than 45°  Most lines tight  Less than 90° / Dive or roll angle 0° to 15°	A A A A
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	Spontaneous in less than 3 s No  A Dive forward 0° to 30° No collapse No Less than 45° Most lines tight A  Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation	A A A A	No  Dive forward 0° to 30°  No collapse  No  Less than 45°  Most lines tight  Less than 90° / Dive or roll angle 0°	A A A A
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	Spontaneous in less than 3 s No  A Dive forward 0° to 30° 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  Dive forward 0° to 30°  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°	A A A A A
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	Spontaneous in less than 3 s No  A Dive forward 0° to 30° No collapse No Less than 45° Most lines tight A  Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation	A A A A A A A A	No  Dive forward 0° to 30°  No collapse  No Less than 45°  Most lines tight  Less than 90° / Dive or roll angle 0° to 15°  Spontaneous re-inflation	A A A A A A
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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	Spontaneous in less than 3 s No  A Dive forward 0° to 30° 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 A	Dive forward 0° to 30° 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 A A A A A A A A A A A
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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	Spontaneous in less than 3 s No  A Dive forward 0° to 30° 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	Dive forward 0° to 30° 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	A A A A A A A A
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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	Spontaneous in less than 3 s No  A Dive forward 0° to 30° 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 A A A A A A A A A A	Dive forward 0° to 30° 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 Less than 90° / Dive or roll angle	A A A A A A A A
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	Spontaneous in less than 3 s No  A Dive forward 0° to 30° 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	Dive forward 0° to 30° 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 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
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	Spontaneous in less than 3 s No  A Dive forward 0° to 30° 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 A A A A A A A A A A	Dive forward 0° to 30° 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 Less than 90° / Dive or roll angle	A A A A A A A A A A A A A A A A A A A

Α

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 15° to 45°	Α	Less than 90° / Dive or roll angle 0° to 15°	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	Loss than 90° / Divo or roll or ris	٨	Lose than 90° / Divo or roll and	٨
roll angle	Less than 90° / Dive or roll angle 15° to 45°	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
15. Directional control with a maintained asymmetric	A			, .
collapse				
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	Α	More than 50 % of the symmetric	Α
Authorities range between turn and stall of spill	symmetric control travel	٠,	control travel	, ,
16. Trim speed spin tendency	A			
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	Α
19. B-line stall	A			
Change of course before release	Changing course less than 45°	Α	Changing course less than 45°	Α
Behaviour before release	Remains stable with straight	Α	Remains stable with straight span	Α
Dellaviour before release	span	^	Remains stable with straight span	^
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	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°	Α	Dive forward 0° to 30°	Α
21. Big ears in accelerated flight	<b>A</b>			
Entry procedure	Dedicated controls	Α	Dedicated controls	Α
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