



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_0983.2015 25. 09. 2015	
Glider model Serial number Trimmer	Epsilon 8 27 64360 no	Classification Representative Place of test		B Kari Eisenhut Villeneuve	
Test pilot Harness Harness to risers distance (cm) Distance between risers (cm) Total weight in flight (kg)		Thurnheer Claude Supair - Altix M 43 44 80		Zoller Alain Gin Gliders - Gingo 2 L 43 46 120	
Inflation/Take-off Rising behaviour Special take off technique required		A Smooth, easy and constant rising No	A A	Smooth, easy and constant rising No	A A
Landing Special landing technique required		A No	Α	No	Α
3. Speed in straight flight Trim speed more than 30 km/h Speed range using the controls larger than 10 km/h Minimum speed 4. Control movement		A Yes Yes Less than 25 km/h A	A A A	Yes Yes Less than 25 km/h	A A A
Max. weight in flight up to 80 kg Symmetric control pressure / travel		not available	0	not available	0
Max. weight in flight 80 kg to 100 kg Symmetric control pressure / travel		Increasing / greater than 60 cm	Α	not available	0
Max. weight in flight greater than 100 kg Symmetric control pressure / travel		not available	0	Increasing / greater than 65 cm	Α
5. Pitch stability exiting a Dive forward angle on exit Collapse occurs	accelerated flight	A Dive forward less than 30° No	A A	Dive forward less than 30°	A A
flight	g controls during accelerated	A	•	No	•
7. Roll stability and damposcillations	ping	No A Reducing	A	No Reducing	A
8. Stability in gentle spir.Tendency to return to strai9. Behaviour exiting a fu	ght flight Ily developed spiral dive	A Spontaneous exit B	Α	Spontaneous exit	Α
Initial response of glider (fi Tendency to return to strai		No immediate reaction Spontaneous exit (g force decreasing, rate of turn decreasing)	B A	Immediate reduction of rate of turn Spontaneous exit (g force decreasing, rate of turn decreasing)	A A
Turn angle to recover norm	nal flight	720° to 1 080°, spontaneous recovery	В	720° to 1 080°, spontaneous recovery	В

10. Cymmetric from Conapse				
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
Ç				
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		Danking hash lass 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	Α			
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Cascade occurs	No	Α	No	Α
13. Recovery from a developed full stall	Α			
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Collapse	No collapse	Α	No collapse	Α
Cascade occurs (other than collapses)	No	Α	No	Α
Rocking back	Less than 45°	Α	Less than 45°	Α
Line tension	Most lines tight	Α	Most lines tight	Α
14. Asymmetric collapse	A			
Small anymmetric college				
Small asymmetric collapse	Loop there 00° / Diverge and production	۸	Lace then 00° / Divergentall angle 0°	٨
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°	Α	Less than 360°	Α
Collapse on the opposite side occurs				Λ
	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	collapsed cells with a	A A	collapsed cells with a spontaneous	A
Twist occurs Cascade occurs	collapsed cells with a spontaneous reinflation)		collapsed cells with a spontaneous reinflation)	
	collapsed cells with a spontaneous reinflation) No	A	collapsed cells with a spontaneous reinflation) No	Α
Cascade occurs	collapsed cells with a spontaneous reinflation) No	A A	collapsed cells with a spontaneous reinflation) No No	A A
Cascade occurs	collapsed cells with a spontaneous reinflation) No	A A	collapsed cells with a spontaneous reinflation) No No	A A
Cascade occurs Folding lines used Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or	collapsed cells with a spontaneous reinflation) No No No Less than 90° / Dive or roll angle	A A	collapsed cells with a spontaneous reinflation) No No No Less than 90° / Dive or roll angle	A A
Cascade occurs Folding lines used Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle	collapsed cells with a spontaneous reinflation) No No No Less than 90° / Dive or roll angle 15° to 45°	A A A	collapsed cells with a spontaneous reinflation) No No No Less than 90° / Dive or roll angle 15° to 45°	A A A
Cascade occurs Folding lines used Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or	collapsed cells with a spontaneous reinflation) No No No Less than 90° / Dive or roll angle	A A	collapsed cells with a spontaneous reinflation) No No No Less than 90° / Dive or roll angle	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	A			
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