

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_0943.2015 05. 08. 2015	
Glider model Serial number Trimmer	Omega XAlps 24.5 63798 no	Classification Representative Place of test		D None Villeneuve	
Test pilot Harness Harness to risers distance (cm) Distance between risers (cm) Total weight in flight (kg)		Thurnheer Claude Sup' Air - Access M 43 44 90		Zoller Alain Gin Gliders - Gingo 2 L 42 46 110	
1. Inflation/Take-off		С			
Rising behaviour		Overshoots, shall be slowed down to avoid a front collapse	С	Overshoots, shall be slowed down to avoid a front collapse	С
Special take off technique	required	No	Α	•	Α
2. Landing		Α			
Special landing technique required		No	Α	No	Α
3. Speed in straight fligh	t	A			
Trim speed more than 30 I	km/h	Yes	Α	Yes	Α
Speed range using the controls 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		С			
Max. weight in flight up t	to 80 kg				
	-	not available	0	not available	0
Symmetric control pressure / travel		Hot available	U	not available	U
Max. weight in flight 80 k	rg to 100 kg				
Symmetric control pressure / travel		Increasing / greater than 60 cm	Α	not available	0
Max. weight in flight grea	_		_		_
Symmetric control pressur		not available	0	Increasing / 50 cm to 65 cm	С
Pitch stability exiting a Dive forward angle on exit		A Dive forward less than 30°	۸	Dive forward lose than 20°	^
· ·		No	A A	Dive forward less than 30° No	A
Collapse occurs 6. Pitch stability operating flight	g controls during accelerated	A	٨	NO	Α
Collapse occurs		No	Α	No	Α
7. Roll stability and damp	ping	Α			
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 fully developed spiral dive		D			
Initial response of glider (first 180°)		No immediate reaction	В	Immediate reduction of rate of turn	Α
Tendency to return to strai	ght flight	Turn remains constant (g force constant, rate of turn constant)	D	Turn remains constant (g force constant, rate of turn constant)	D
Turn angle to recover norm	nal flight	With pilot action	D	With pilot action	D

10. Symmetric front collapse	U			
Approximately 30 % chord				
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Recovery through pilot action in less than a further 3 s	D	Recovery through pilot action in less than a further 3 s	D
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	Yes	D	Yes	D
Č				
At least 50% chord				
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Recovery through pilot action in less than a further 3 s	D	Recovery through pilot action in less than a further 3 s	D
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	Yes	D	Yes	D
With accelerator				
Entry	Rocking back less than 45°	Α	Rocking back greater than 45°	С
Recovery	Spontaneous in 3 s to 5 s	В	Spontaneous in 3 s to 5 s	В
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	Yes	D	Yes	D
11. Exiting deep stall (parachutal stall)	Α			
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			
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	B	_	Div. far. and 00% to 00%	_
Dive forward angle on exit	Dive forward 30° to 60°	В	Dive forward 30° to 60°	В
Collapse	No collapse	A	No collapse	A
Cascade occurs (other than collapses)	No Less than 45°	Α	No Less than 45°	A
Rocking back Line tension	Most lines tight	A A	Most lines tight	A A
14. Asymmetric collapse	C C	А	Most lines light	A
14. Asymmetric conapse				
Small asymmetric collapse				
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	Yes	D	Yes	D
Large asymmetric collapse				
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 45° to 60°	С
Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
Total change of course	Less than 360°	Α	Less than 360°	Α

D

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	Α	No	Α
Folding lines used	Yes	D	Yes	D
roluing lines used	163	D	165	D
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 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	Yes	D	Yes	D
Large asymmetric collapse with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or		ь	00° to 180° / Divo or roll angle 45°	С
roll angle	90° to 180° / Dive or roll angle 15° to 45°	В	90° to 180° / Dive or roll angle 45° to 60°	C
Re-inflation behaviour	Inflates in less than 3 s from start of pilot action	С	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	Yes	D	Yes	D
15. Directional control with a maintained asymmetric collapse	Α			
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	A			
Spin occurs	No	Α	No	Α
17. Low speed spin tendency	A	, ,		, ,
Spin occurs	No	Α	No	Α
•	В		NO	
18. Recovery from a developed spin		٨	Stand animaina in 00° to 100°	п
Spin rotation angle after release	Stops spinning in less than 90°	A	Stops spinning in 90° to 180°	В
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 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	Α			
Entry procedure	Dedicated controls	Α	Standard technique	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°	A	Dive forward 0° to 30°	A
	B	^	Dive lotward 0 to 50	^
21. Big ears in accelerated flight		٨	Chandand to all rivers	
Entry procedure	Dedicated controls	A	Standard technique	A
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	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	Α	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