

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	AirDesign	Certification number		PG_1033.2016	
Address	Rhombergstraße 9, 4.Stock 6067 Absam Austria	Date of flight test		01. 03. 2016	
Glider model	UFO 21	Classification		В	
Serial number	UFO212PP154227	Representative		None	
		·			
Trimmer	no	Place of test		Villeneuve	
Test pilot		Thurnheer Claude		Bourdilloud Elie	
Harness					
		Flugsau - XX-Lite		Niviuk - Hamak M	
Harness to risers di	• •	40		44	
Distance between ri	sers (cm)	40		44	
Total weight in fligh	t (kg)	75		90	
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	A			
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		A			
Max. weight in flight up t	o 80 kg				
Symmetric control pressur		Increasing / greater than 55 cm	Α	not available	0
Max. weight in flight 80 k	ra to 100 ka				
Max. weight in flight 80 k	•	not available	0	Increasing / greater than 60 cm	Α
Symmetric control pressur	e / travel	not available	0	Increasing / greater than 60 cm	Α
Symmetric control pressur Max. weight in flight great	e / travel				
Symmetric control pressur Max. weight in flight great Symmetric control pressur	e / travel ater than 100 kg e / travel	not available	0	Increasing / greater than 60 cm	A 0
Symmetric control pressur Max. weight in flight great Symmetric control pressur 5. Pitch stability exiting a	e / travel ater than 100 kg e / travel accelerated flight	not available	0	not available	0
Max. weight in flight gree Symmetric control pressur 5. Pitch stability exiting a Dive forward angle on exit	e / travel ater than 100 kg e / travel accelerated flight	not available A Dive forward less than 30°	0 A	not available Dive forward less than 30°	0 A
Symmetric control pressur Max. weight in flight great Symmetric control pressur 5. Pitch stability exiting a Dive forward angle on exit Collapse occurs	e / travel ater than 100 kg e / travel accelerated flight	not available	0	not available	0
Symmetric control pressur Max. weight in flight great Symmetric control pressur 5. Pitch stability exiting a Dive forward angle on exit Collapse occurs	e / travel ater than 100 kg e / travel accelerated flight	not available A Dive forward less than 30° No	0 A	not available Dive forward less than 30°	0 A
Max. weight in flight greaters Symmetric control pressures. Pitch stability exiting a Dive forward angle on exit Collapse occurs.	e / travel ater than 100 kg e / travel accelerated flight	not available A Dive forward less than 30° No	0 A	not available Dive forward less than 30°	0 A
Symmetric control pressur Max. weight in flight great Symmetric control pressur 5. Pitch stability exiting a Dive forward angle on exit Collapse occurs 6. Pitch stability operating	e / travel ater than 100 kg e / travel accelerated flight ng controls during accelerated	not available A Dive forward less than 30° No A	0 A A	not available Dive forward less than 30° No	0 A A
Symmetric control pressur Max. weight in flight gree Symmetric control pressur 5. Pitch stability exiting a Dive forward angle on exit Collapse occurs 6. Pitch stability operatin flight Collapse occurs 7. Roll stability and dam Oscillations	e / travel ater than 100 kg e / travel accelerated flight ag controls during accelerated	not available A Dive forward less than 30° No A	0 A A	not available Dive forward less than 30° No	0 A A
Symmetric control pressur Max. weight in flight great Symmetric control pressur 5. Pitch stability exiting a Dive forward angle on exit Collapse occurs 6. Pitch stability operating flight Collapse occurs 7. Roll stability and damp Oscillations 8. Stability in gentle spirater	e / travel ater than 100 kg e / travel accelerated flight ag controls during accelerated bing	not available A Dive forward less than 30° No A No A Reducing A	0 A A	not available Dive forward less than 30° No No Reducing	0 A A
Symmetric control pressur Max. weight in flight great Symmetric control pressur 5. Pitch stability exiting a Dive forward angle on exit Collapse occurs 6. Pitch stability operating flight Collapse occurs 7. Roll stability and damp Oscillations 8. Stability in gentle spirate	e / travel ater than 100 kg e / travel accelerated flight ag controls during accelerated bing als ght flight	not available A Dive forward less than 30° No A No A Reducing A Spontaneous exit	0 A A	not available Dive forward less than 30° No	0 A A
Symmetric control pressur Max. weight in flight gree Symmetric control pressur 5. Pitch stability exiting a Dive forward angle on exit Collapse occurs 6. Pitch stability operatin flight Collapse occurs 7. Roll stability and dam Oscillations 8. Stability in gentle spira Tendency to return to strai 9. Behaviour exiting a fur	e / travel ater than 100 kg e / travel accelerated flight ag controls during accelerated ping als ght flight lly developed spiral dive	not available A Dive forward less than 30° No A No A Reducing A Spontaneous exit A	0 A A	not available Dive forward less than 30° No No Reducing Spontaneous exit	0 A A A
Max. weight in flight gree Symmetric control pressur 5. Pitch stability exiting a Dive forward angle on exit Collapse occurs 6. Pitch stability operatin flight Collapse occurs 7. Roll stability and damp Oscillations 8. Stability in gentle spira Tendency to return to strai 9. Behaviour exiting a fu Initial response of glider (fi	e / travel ater than 100 kg e / travel accelerated flight ag controls during accelerated ping als ght flight lly developed spiral dive rst 180°)	not available A Dive forward less than 30° No A No A Reducing A Spontaneous exit A Immediate reduction of rate of turn	0 A A	not available Dive forward less than 30° No No Reducing Spontaneous exit Immediate reduction of rate of turn	0 A A
Symmetric control pressur Max. weight in flight gree Symmetric control pressur 5. Pitch stability exiting a Dive forward angle on exit Collapse occurs 6. Pitch stability operatin flight Collapse occurs 7. Roll stability and dam Oscillations 8. Stability in gentle spira Tendency to return to strai 9. Behaviour exiting a fur	e / travel ater than 100 kg e / travel accelerated flight ag controls during accelerated ping als ght flight lly developed spiral dive rst 180°)	not available A Dive forward less than 30° No A No A Reducing A Spontaneous exit A Immediate reduction of rate of	0 A A A	not available Dive forward less than 30° No No Reducing Spontaneous exit	0 A A A
Symmetric control pressur Max. weight in flight gree Symmetric control pressur 5. Pitch stability exiting a Dive forward angle on exit Collapse occurs 6. Pitch stability operatin flight Collapse occurs 7. Roll stability and damp Oscillations 8. Stability in gentle spira Tendency to return to strai 9. Behaviour exiting a fu Initial response of glider (fi	e / travel ater than 100 kg e / travel accelerated flight ag controls during accelerated bing als ght flight lly developed spiral dive rst 180°) ght flight	not available A Dive forward less than 30° No A No A Reducing A Spontaneous exit A Immediate reduction of rate of turn Spontaneous exit (g force decreasing, rate of turn	0 A A A A A	not available Dive forward less than 30° No No Reducing Spontaneous exit Immediate reduction of rate of turn Spontaneous exit (g force	0 A A A A A

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 3 s to 5 s	В
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 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			
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Cascade occurs	No	Α	No	Α
13. Recovery from a developed full stall	B	_	Divertend 20° to CO°	_
Dive forward angle on exit	Dive forward 30° to 60°	В	Dive forward 30° to 60°	B A
Collapse			No collapse	A
	No collapse	A	•	
Cascade occurs (other than collapses)	No	Α	No	Α
Rocking back	No Less than 45°	A A	No Less than 45°	A A
Rocking back Line tension	No Less than 45° Most lines tight	Α	No	Α
Rocking back Line tension 14. Asymmetric collapse	No Less than 45°	A A	No Less than 45°	A A
Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse	No Less than 45° Most lines tight B	A A A	No Less than 45° Most lines tight	A A A
Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle	No Less than 45° Most lines tight B Less than 90° / Dive or roll angle 15° to 45°	A A A	No Less than 45° Most lines tight Less than 90° / Dive or roll angle 15° to 45°	A A A
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	No Less than 45° Most lines tight B Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation	A A A	No Less than 45° Most lines tight Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation	A A A
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	No Less than 45° Most lines tight B Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360°	A A A	No 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
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	No Less than 45° Most lines tight B Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation	A A A	No Less than 45° Most lines tight Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation	A A A
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	No Less than 45° 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	A A A A	No 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	A A A A
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 Less than 45° 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)	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)	A A A A A
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	No Less than 45° 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	A A A A A A A	No 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
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 Less than 45° 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	No 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	A A A A A A
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	No Less than 45° 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	A A A A A A A	No 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
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 Less than 45° 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	No 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	A A A A A A A
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	No Less than 45° 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	No 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 No 90° to 180° / Dive or roll angle 15°	A A A A A A A
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 Less than 45° 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 15° to 45°	A A A A A A A A A A A A A A A A A A A	No 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 No Oo No	A A A A A A B

В

10. Symmetric front collapse

Collapse on the opposite side occurs	No (or only a small number of	Α	No (or only a small number of	Α
	collapsed cells with a spontaneous reinflation)		collapsed cells with a spontaneous reinflation)	
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No	Α	No	Α
Small 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°		15° to 45°	
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 roll angle	Less than 90° / Dive or roll angle 15° to 45°	Α	90° to 180° / Dive or roll angle 15° to 45°	В
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 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	Α	More than 50 % of the symmetric	Α
	symmetric control travel		control travel	
16. Trim speed spin tendency	A	۸	No	۸
Spin occurs	No	Α	No	Α
17. Low speed spin tendency Spin occurs	A No	Α	No	Α
18. Recovery from a developed spin	A	^	NO	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	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
Recovery	span 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	В			
Entry procedure	Dedicated controls	Α	Standard technique	Α
Behaviour during big ears	Stable flight	Α	Stable flight	Α
Recovery	Recovery through pilot action in	В	Recovery through pilot action in	В
	less than a further 3 s	_	less than a further 3 s	_
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
21. Big ears in accelerated flight				
	В			
Entry procedure	Dedicated controls	A	Standard technique	A
Entry procedure Behaviour during big ears	Dedicated controls Stable flight	Α	Stable flight	Α
Entry procedure	Dedicated controls			

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	А
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