AIR TURQUOISE SA | PARA-TEST.COM

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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Flight test report: EN 926-2:2013 & LTF 91/09

Manufacturer Sky Paragliders a.s.		Certification number	F	PG_1480.2019		
Address	Okruzní 39	Flight test	0	7.03.2016		
	73911 Frýdlant nad					
	Ostravicí Czech Republic					
Glider model	Apollo 2 XS	Classification	E	3		
Serial number	2151-11-0605	Representative		lone		
		•				
Trimmer no		Place of test		Villeneuve		
Folding lines used	no					
Test pilot		Light pilot under Air Turquoise supervision	C	Claude Thurnheer		
Harness		Flugsau - XX-Lite	Flugsau - XX-Lite			
Harness to risers distance (cm)		40		40		
Distance between risers (cm)		40		40		
1. Inflation/Take-off		Α				
Rising behaviour		Smooth, easy and constant rising	Α	Smooth, easy and constant rising	Α	
Special take off technique	required	No	А	No	Α	
2. Landing		Α				
Special landing technique		No	A	No	A	
3. Speed in straight flight		B		No.	•	
Trim speed more than 30 km/h		Yes	A	Yes	A	
Speed range using the controls larger than 10 km/h		Yes	A	Yes	A	
Minimum speed 4. Control movement		25 km/h to 30 km/h	В	25 km/h to 30 km/h	В	
	- 90 kg	Α				
Max. weight in flight up to 80 kg		Increasing / greater than 55 cm	А	Increasing / greater than 55 cm	А	
Symmetric control pressure / travel		increasing / greater than 55 cm	A	increasing / greater than 55 cm	A	
Max. weight in flight 80 kg to 100 kg		not available	0	not available	0	
Symmetric control pressure / travel			U		0	
Max. weight in flight greater than 100 kg Symmetric control pressure / travel		not available	0	not available	0	
5. Pitch stability exiting accelerated flight		A	U		U	
Dive forward angle on exit		Dive forward less than 30°	А	Dive forward less than 30°	А	
Collapse occurs		No	A	No	A	
6. Pitch stability operatir	ng controls during accelerated	A				
flight						
Collapse occurs		No	A	No	A	
7. Roll stability and dam	ping	A	^	Poducing	٨	
Oscillations		Reducing	A	Reducing	A	
8. Stability in gentle spirals		A Spontaneous exit	А	Spontaneous exit	А	
Tendency to return to straight flight		A	А		А	
9. Behaviour exiting a fully developed spiral dive Initial response of glider (first 180°)		Immediate reduction of rate of turn	А	Immediate reduction of rate of turn	А	
Tendency to return to strai		Spontaneous exit (g force	A	Spontaneous exit (g force	A	
i chaonoy to retain to strai		decreasing, rate of turn decreasing)		decreasing, rate of turn decreasing)	7	
Turn angle to recover normal flight		Less than 720°, spontaneous recovery	A	Less than 720°, spontaneous recovery	A	
10. Symmetric front collapse		В				
To. Symmetric from cone	1p36	6				

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Passyan	Chantanaqua in laga than 2 a	^	Chantanaqua in laga than 2 a	^
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Dive forward angle on exit Change of course	Dive forward 0° to 30° Keeping course	А	Dive forward 0° to 30° Keeping course	A
Cascade occurs	No	А	No	А
Folding lines used	No		No	
At least 50% chord				
Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery	Spontaneous in less than 3 s	А	Spontaneous in 3 s to 5 s	В
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Entering a turn of less than 90°	A		A
Cascade occurs	No	А	No	А
Folding lines used	No		No	
With accelerator				
Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
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° / Entering a turn of less than 90°	А	Dive forward 0° to 30° / Keeping course	А
Cascade occurs	No	А	No	А
Folding lines used	No		No	
11. Exiting deep stall (parachutal stall)	Α			
Deep stall achieved	Yes	А	Yes	А
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
Change of course	Changing course less than 45°	А	Changing course less than 45°	А
Cascade occurs	No	А	No	А
12. High angle of attack recovery	A			
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Cascade occurs	No	А	No	А
13. Recovery from a developed full stall	Α			
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
Collapse	No collapse	А	No collapse	А
Cascade occurs (other than collapses)	No	А	No	А
Rocking back	Less than 45°	А	Less than 45°	А
Line tension	Most lines tight	А	Most lines tight	А
14. Asymmetric collapse	B		, , , , , , , , , , , , , , , , , , ,	
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°	A	Less than 90° / Dive or roll angle 0° to 15°	A
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
Folding lines used	No		No	
Large asymmetric collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45°	A	90° to 180° / Dive or roll angle 15° to 45°	В
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
Folding lines used	No		No	
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°	A	Less than 90° / Dive or roll angle 15° to 45°	A
Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	А

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Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
Folding lines used	No		No	
Large asymmetric collapse with fully activated accelerator				
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 15° to 45°	В
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
Folding lines used	No		No	
15. Directional control with a maintained asymmetric collapse	Α			
Able to keep course	Yes	А	Yes	А
180° turn away from the collapsed side possible in 10 s	Yes	А	Yes	А
Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	A	More than 50 % of the symmetric control travel	А
16. Trim speed spin tendency	Α			
Spin occurs	No	А	No	А
17. Low speed spin tendency	Α			
Spin occurs	No	А	No	А
18. Recovery from a developed spin	Α			
Spin rotation angle after release	Stops spinning in less than 90°	А	Stops spinning in less than 90°	А
Cascade occurs	No	А	No	А
19. B-line stall	Α			
Change of course before release	Changing course less than 45°	А	Changing course less than 45°	А
Behaviour before release	Remains stable with straight span	А	Remains stable with straight span	А
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
Cascade occurs	No	А	No	А
20. Big ears	В			
Entry procedure	Dedicated controls	А	Dedicated controls	А
Behaviour during big ears	Stable flight	А	Stable flight	А
Recovery	Spontaneous in less than 3 s	A	Recovery through pilot action in less than a further 3 s	В
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
21. Big ears in accelerated flight	В			
Entry procedure	Dedicated controls	А	Dedicated controls	А
Behaviour during big ears	Stable flight	А	Stable flight	А
Recovery	Recovery through pilot action in less than a further 3 s	В	Recovery through pilot action in less than a further 3 s	В
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	A	Stable flight	A
22. Alternative means of directional control	Α			
180° turn achievable in 20 s	Yes	А	Yes	А
Stall or spin occurs	No	А	No	А
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				