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 PG_1478.2019		PG_1478.2019	
Address	Okruzní 39 73911 Frýdlant nad Ostravicí Czech Republic	Flight test	1	4.12.2015	
Glider model	Apollo 2 L	Classification	E	3	
Serial number 2058-11-1242		Representative	None		
		Place of test	Villeneuve		
-	no	Flace of lest	v	lieneuve	
Folding lines used	no				
Test pilot		Claude Thurnheer	A	Alain Zoller	
Harness		Sup' Air - Access M	C	Gin Gliders - Gingo 2 L	
Harness to risers distance (cm)		43	4	43	
Distance between risers (cm)		44	4	46	
		85		108	
Total weight in flight (kg)		00	I	00	
1. Inflation/Take-off		Α			
Rising behaviour		Smooth, easy and constant rising	А	Smooth, easy and constant rising	А
Special take off technique	required	No	А	No	А
2. Landing		Α			
Special landing technique required		No	A	No	A
3. Speed in straight flight		A			
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		Less than 25 km/h	A	Less than 25 km/h	A
4. Control movement	- 00 km	Α			
Max. weight in flight up to 80 kg		not evaluable	0	not ovcilable	0
Symmetric control pressure / travel		not available	0	not available	0
Max. weight in flight 80 kg to 100 kg		Increasing / greater than 60 cm	А	not available	0
Symmetric control pressure / travel		increasing / greater than oo chi	A		0
Max. weight in flight greater than 100 kg Symmetric control pressure / travel		not available	0	Increasing / greater than 65 cm	А
• •		A	U	increasing / greater than 05 cm	Λ
5. Pitch stability exiting accelerated flight Dive forward angle on exit		Dive forward less than 30°	А	Dive forward less than 30°	А
Collapse occurs		No	A	No	A
	g controls during accelerated	A			
Collapse occurs		No	А	No	А
7. Roll stability and damp	bing	Α			
Oscillations		Reducing	А	Reducing	А
8. Stability in gentle spira		Α			
	415				
Tendency to return to strai		Spontaneous exit	А	Spontaneous exit	А
	ght flight		A	Spontaneous exit	A
Tendency to return to strai 9. Behaviour exiting a ful Initial response of glider (fi	ght flight I ly developed spiral dive rst 180°)	Spontaneous exit	A A	Spontaneous exit Immediate reduction of rate of turn	A A
Tendency to return to strai 9. Behaviour exiting a ful	ght flight I ly developed spiral dive rst 180°)	Spontaneous exit A			
Tendency to return to strai 9. Behaviour exiting a ful Initial response of glider (fi	ght flight I ly developed spiral dive rst 180°) ght flight	Spontaneous exit A Immediate reduction of rate of turn Spontaneous exit (g force	А	Immediate reduction of rate of turn Spontaneous exit (g force decreasing, rate of turn decreasing)	А
Tendency to return to strai 9. Behaviour exiting a ful Initial response of glider (fi Tendency to return to strai	ght flight I ly developed spiral dive rst 180°) ght flight nal flight	Spontaneous exit A Immediate reduction of rate of turn Spontaneous exit (g force decreasing, rate of turn decreasing) Less than 720°, spontaneous	A A	Immediate reduction of rate of turn Spontaneous exit (g force decreasing, rate of turn decreasing) Less than 720°, spontaneous	A A
Tendency to return to strai 9. Behaviour exiting a ful Initial response of glider (fi Tendency to return to strai Turn angle to recover norm	ght flight I Iy developed spiral dive rst 180°) ght flight nal flight I pse	Spontaneous exit A Immediate reduction of rate of turn Spontaneous exit (g force decreasing, rate of turn decreasing) Less than 720°, spontaneous recovery	A A	Immediate reduction of rate of turn Spontaneous exit (g force decreasing, rate of turn decreasing) Less than 720°, spontaneous	A A

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Dive forward angle on exit Change of course	Dive forward 0° to 30° Keeping course	A	Dive forward 0° to 30° Keeping course	А
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 3 s to 5 s	В	Spontaneous in less than 3 s	A
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping	A	Dive forward 0° to 30° / Keeping	A
	course	A	course	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 less than 3 s	А
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping	А	Dive forward 30° to 60° /	В
Concerda acoura	course	•	Keeping course	•
Cascade occurs	No	A	No	A
Folding lines used	No		No	
11. Exiting deep stall (parachutal stall)	Α			
Deep stall achieved	Yes	A	Yes	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°	А	Dive forward 0° to 30°	A
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	Α			
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	В			
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°	А
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	А	No (or only a small number of	А
	collapsed cells with a spontaneous reinflation)		collapsed cells with a spontaneous reinflation)	
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	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	А	No (or only a small number of	А
	collapsed cells with a spontaneous reinflation)		collapsed cells with a spontaneous reinflation)	
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	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 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	Α	Spontaneous re-inflation	А
Total change of course	Less than 360°	Α	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	A
16. Trim speed spin tendency	Α			
Spin occurs	No	Α	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°	A	Dive forward 0° to 30°	A
Cascade occurs	No	А	No	А
20. Big ears	В			
Entry procedure	Dedicated controls	А	Dedicated controls	A
Behaviour during big ears	Stable flight	А	Stable flight	A
Recovery	Recovery through pilot action in less than a further 3 s	В	Spontaneous in less than 3 s	A
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	A
21. Big ears in accelerated flight	A			
Entry procedure	Dedicated controls	A	Dedicated controls	A
Behaviour during big ears	Stable flight	A	Stable flight	A
Recovery	Spontaneous in 3 s to 5 s	A	Spontaneous in less than 3 s	A
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	A	Stable flight	A
22. Alternative means of directional control	A			
22. Alternative means of directional control 180° turn achievable in 20 s	Yes	A	Yes	A
22. Alternative means of directional control 180° turn achievable in 20 s Stall or spin occurs	Yes No	A A	Yes No	A A
 22. Alternative means of directional control 180° turn achievable in 20 s Stall or spin occurs 23. Any other flight procedure and/or configuration described in the user's manual 	Yes No A	A	No	A
 22. Alternative means of directional control 180° turn achievable in 20 s Stall or spin occurs 23. Any other flight procedure and/or configuration described in the user's manual Procedure works as described 	Yes No A Yes	A	No not available	A 0
 22. Alternative means of directional control 180° turn achievable in 20 s Stall or spin occurs 23. Any other flight procedure and/or configuration described in the user's manual 	Yes No A	A	No	A