## 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_1485.2019		
Address Okruzní 39		Flight test	2	7.11.2014		
	73911 Frýdlant nad					
	Ostravicí Czech Republic					
Glider model Gaia 2 M		Classification	A			
Serial number	1961-11-1402	Representative	-	lone		
		•				
Trimmer no		Place of test	v	ílleneuve		
Folding lines used	no					
Test pilot		Philippe Dupont	C	Claude Thurnheer		
Harness		Supair - Access M	C	Gin Gliders - Hamak M		
Harness to risers distance (cm)		41	4	43		
Distance between risers (cm)		40	4	44		
Total weight in flight (kg)		73		97		
	r (ny)		3	·		
1. Inflation/Take-off		Α				
Rising behaviour		Smooth, easy and constant rising	A	Smooth, easy and constant rising	A	
Special take off technique	required	No	A	No	A	
2. Landing		A	•	Ne	•	
Special landing technique required		No A	A	No	A	
3. Speed in straight flight		A Yes	А	Yes	۸	
Trim speed more than 30 km/h Speed range using the controls larger than 10 km/h		Yes	A	Yes	A A	
Minimum speed		Less than 25 km/h	A	Less than 25 km/h	A	
4. Control movement		A				
Max. weight in flight up t	o 80 kg					
Symmetric control pressure / travel		Increasing / greater than 55 cm	А	not available	0	
Max. weight in flight 80 kg to 100 kg						
Symmetric control pressure / travel		not available	0	Increasing / greater than 60 cm	А	
Max. weight in flight greater than 100 kg						
Symmetric control pressur	e / travel	not available	0	not available	0	
5. Pitch stability exiting accelerated flight		Α				
Dive forward angle on exit		Dive forward less than 30°	А	Dive forward less than 30°	А	
Collapse occurs		No	А	No	А	
6. Pitch stability operatin flight	g controls during accelerated	Α				
Collapse occurs		No	А	No	А	
7. Roll stability and dam	bing	Α				
Oscillations		Reducing	А	Reducing	А	
8. Stability in gentle spirals		Α				
Tendency to return to straight flight		Spontaneous exit	Α	Spontaneous exit	А	
9. Behaviour exiting a fu		Α				
Initial response of glider (fi		Immediate reduction of rate of turn	A	Immediate reduction of rate of turn	A	
Tendency to return to strai	gnt flight	Spontaneous exit (g force decreasing, rate of turn decreasing)	A	Spontaneous exit (g force decreasing, rate of turn decreasing)	A	
		g, and a sub- accordantly)			٨	
Turn angle to recover norm	nal flight	Less than 720°, spontaneous recovery	A	Less than 720°, spontaneous recovery	A	
		Less than 720°, spontaneous recovery A	A	Less than 720°, spontaneous recovery	A	
Turn angle to recover norm	ipse	recovery	A A		A	

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Cascade occurs (other than collapses)NoANoRocking backLess than 45°ALess than 45°Line tensionMost lines tightAMost lines tight14. Asymmetric collapseASmall asymmetric collapseAChange of course until re-inflation / Maximum dive forward or roll angle 0° to 15°Less than 90° / Dive or roll angle 0° to 15°AChange of course until re-inflation / Maximum dive forward or roll angle 0° to 15°Spontaneous re-inflationALess than 90° / Dive or roll angle 0° to 15°Re-inflation behaviourSpontaneous re-inflationALess than 90° / Dive or roll angle 0° to 15°ALess than 90° / Dive or roll angle 0° to 15°Re-inflation behaviourSpontaneous re-inflationALess than 360°ALess than 360°Total change of courseLess than 360°ALess than 360°ALess than 360°Collapse on the opposite side occursNo (or only a small number of collapsed cells with a spontaneous reinflation)ANo (or only a small number of collapsed cells with a spontaneous reinflation)Twist occursNoANoNoANoChange of course until re-inflation / Maximum dive forward or roll angle 15° to 45°ASpontaneous re-inflationANoTwist occursNoLess than 90° / Dive or roll angle 15° to 45°ALess than 90° / Dive or roll angle 15° to 45°ALess than 360°Change of courseLess than 360°ALess than 360°A<	on exit Dive forward No collapse	0° to 30° A Dive forward 0° to 30° A No collapse	A A
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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	Less than 90° / Dive or roll angle $15^\circ$ to $45^\circ$	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	
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	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	Α			
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	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
21. Big ears in accelerated flight	Α			
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	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
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			
	not available	0	not available	0
Procedure works as described	notavallable			
Procedure works as described Procedure suitable for novice pilots	not available	0	not available	0

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