## AIR TURQUOISE SA | PARA-TEST.COM

Route du Pré-au-Comte 8 🔺 CH-1844 Villeneuve 🔺 +41 (0)21 965 65 65

Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes

Approximately 30 % chord



## Flight test report: EN 926-2:2013 & NfL 2-565-20

	ort: EN 926-2:2013				
Manufacturer Address	Sol Paragliders Rua Walter Marquardt, 1180 cp 370 89259-565 Jaraguà do Sul, S.C. Brazil	Certification number Flight test		PG_1845.2021 00.05.2021	
Glider model	Atmus 3 S	Classification	Е	3	
Serial number	23.369	Representative		lone	
			Villeneuve		
Trimmer	no	Place of test	٧	rillerieuve	
Folding lines used	no				
Test pilot		Philippe Dupont	C	Claude Thurnheer	
Harness		Advance - Success 4 M	Α	Advance - Success 4 M	
Harness to risers distance (cm)		44	4	44	
Distance between risers (cm)		40	4	44	
Total weight in flight (kg)		75	o	90	
Total Wolght in high	it (kg)	7.0	Ŭ		
1. Inflation/Take-off		Α			
Rising behaviour		Smooth, easy and constant rising	Α	Smooth, easy and constant rising	Α
Special take off technique	e required	No	Α	No	Α
2. Landing		Α			
Special landing technique		No	Α	No	Α
3. Speed in straight fligh		<b>A</b>			
Trim speed more than 30		Yes	Α	Yes	Α
Speed range using the controls larger than 10 km/h		Yes	A	Yes	Α
Minimum speed		Less than 25 km/h	Α	Less than 25 km/h	Α
4. Control movement		Α			
Max. weight in flight up to 80 kg		la considera d'anno atamete con 55 con		and available	^
Symmetric control pressure / travel		Increasing / greater than 55 cm	Α	not available	0
Max. weight in flight 80 kg to 100 kg		not available	0	Increasing / greater than 60 cm	۸
Symmetric control pressure / travel  Max. weight in flight greater than 100 kg		not available	0	Increasing / greater than 60 cm	Α
	=	not available	Λ	not available	0
Symmetric control pressu		A	U	not available	U
5. Pitch stability exiting accelerated flight  Dive forward angle on exit		Dive forward less than 30°	Α	Dive forward less than 30°	Α
Collapse occurs		No	Α	No	Α
•	ng controls during accelerated	A			
Collapse occurs		No	Α	No	Α
7. Roll stability and dam	ping	A			
Oscillations		Reducing	Α	Reducing	Α
8. Stability in gentle spir	rals	A			
Tendency to return to stra	night flight	Spontaneous exit	Α	Spontaneous exit	Α
9. Behaviour exiting a fu	ully developed spiral dive	Α			
Initial response of glider (	first 180°)	Immediate reduction of rate of turn	Α	Immediate reduction of rate of turn	Α
Tendency to return to straight flight		Spontaneous exit (g force decreasing, rate of turn decreasing)	Α	Spontaneous exit (g force decreasing, rate of turn decreasing)	Α
Turn angle to recover nor	mal flight	Less than 720°, spontaneous recovery	Α	Less than 720°, spontaneous recovery	Α
10. Symmetric front coll	anaa	В			

	5		5	
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		No	
At least 50% chord				
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Spontaneous in 3 s to 5 s	В	Spontaneous in less than 3 s	Α
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping	A	Dive forward 0° to 30° / Keeping	Α
Dive forward angle on exit? Onlinge of course	course		course	
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
With accelerator				
	Rocking back less than 45°	Α	Rocking back less than 45°	۸
Entry	•			A
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 course	Α	Dive forward 0° to 30° / Keeping course	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
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		Α
12. High angle of attack recovery	A		NO	А
		٨	Chantanagua in loga than 2 a	۸
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	A			
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Collapse	No collapse	Α	No collapse	Α
Cascade occurs (other than collapses)	No	Α	No	Α
Rocking back	Less than 45°	Α	Less than 45°	Α
Line tension	Most lines tight	Α	Most lines tight	Α
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 0° to 15°	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
-		A	No (or only a small number of	A
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	^	collapsed cells with a spontaneous reinflation)	۸
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
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°	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	Α	No (or only a small number of	A
Collapse on the opposite side occurs	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		No	
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	0° to 15°	/3	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° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No	AAA BAAA AA	Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No 90° to 180° / 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 (or only a small number of collapsed cells with a spontaneous reinflation)  No  No  No  90° to 180° / 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  No	A A A A A A	No (or only a small number of collapsed cells with a spontaneous reinflation)  No  No  No  90° to 180° / 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
reinflation)  No  No  No  No  90° to 180° / 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	A B A A	reinflation)  No  No  No  90° to 180° / 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 B A A
No N	A B A A	No No 90° to 180° / 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 B A A
No 90° to 180° / 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	B A A	No  90° to 180° / 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	B A A A
90° to 180° / 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	90° to 180° / 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
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	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
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	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
Less than 360°  No (or only a small number of collapsed cells with a spontaneous reinflation)  No  No  No  A	A A	Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No	A A
No (or only a small number of collapsed cells with a spontaneous reinflation) No No No A	A	No (or only a small number of collapsed cells with a spontaneous reinflation)  No  No	A A
collapsed cells with a spontaneous reinflation) No No No A	Α	collapsed cells with a spontaneous reinflation) No No	Α
No No <b>A</b>		No	
No <b>A</b>	A		Α
No <b>A</b>			
A			
Yes			
	Α	Yes	Α
Yes	Α	Yes	Α
More than 50 % of the symmetric control travel	Α	More than 50 % of the symmetric control travel	Α
A			
No	Α	No	Α
A			
No	Α	No	Α
В			
Stops spinning in 90° to 180°	В	Stops spinning in 90° to 180°	В
No	Α	No	Α
A			
Changing course less than 45°	Α	Changing course less than 45°	Α
Remains stable with straight span	Α	Remains stable with straight span	Α
Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
No	Α	No	Α
В			
Dedicated controls	Α	Dedicated controls	Α
Stable flight	Α	Stable flight	Α
Spontaneous in 3 s to 5 s	В	Spontaneous in less than 3 s	Α
Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
В			
Dedicated controls	Α	Dedicated controls	Α
Stable flight	Α	Stable flight	Α
Recovery through pilot action in less than a further 3 s	В	Spontaneous in less than 3 s	Α
Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Stable flight	Α	Stable flight	Α
A			
Yes	Α	Yes	Α
No	Α	No	Α
0			
not available	0	not available	0
not available	0	not available	0
not available	0	not available	0
	More than 50 % of the symmetric control travel  A No A No A No B Stops spinning in 90° to 180° No A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No B Dedicated controls Stable flight Spontaneous in 3 s to 5 s Dive forward 0° to 30° B Dedicated controls Stable flight Recovery through pilot action in less than a further 3 s Dive forward 0° to 30° Stable flight Recovery through pilot action in less than a further 3 s Dive forward 0° to 30° Stable flight  A Yes No D Inot available Inot available Inot available Inot available	More than 50 % of the symmetric control travel  A No A	A More than 50 % of the symmetric control travel  A No A No A No B Stops spinning in 90° to 180° A No A No A No B Stops spinning in 90° to 180° A No