## AIR TURQUOISE SA | PARA-TEST.COM

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**Advance Thun AG** 

test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes

Manufacturer



Certification number PG\_2435.2024

## Flight test report: EN 926-2:2013+A1:2021\* and NfL 2-565-20

Address	Uttigenstrasse 87 3600 Thun Switzerland		Flight test		04.07.2024	
Glider model Serial number Trimmer Folding lines used	SIGMA 12 DLS 22 105449 no		Classification Representative Place of test		C None Villeneuve	
Test pilot		Victor Chinen	Cirilli		Claude Thurnheer	
Harness Harness to risers distance [cm] Distance between risers [cm]		Woody Valley srl Wani Light 2 M 43 40		Advance Thun AG Success 4 M 43 44		
Total weight in fligh	nt [kg]	68			87	
Inflation/Take-off Rising behaviour  Special take off technique	e required	B Easy rising, some pile	ot correction is required	В	Easy rising, some pilot correction is required	В
2. Landing Special landing technique	required	<b>A</b> No		Α	No	Α
3. Speed in straight flight Trim speed more than 30 km/h		<b>B</b> Yes		Α	Yes	Α
Speed range using the controls larger than 10 km/h		Yes		Α	Yes	Α
Minimum speed		Less than 25 km/h		Α	25 km/h to 30 km/h	В
4. Control movement Max. weight in flight up Symmetric control pressu		A Increasing / greater th	nan 55 cm	Α	not available	0
Max. weight in flight 80 kg to 100 kg Symmetric control pressure / travel		not available		0	Increasing / greater than 60 cm	Α
Max. weight in flight greater than 100 kg Symmetric control pressure / travel		not available		0	not available	0
<ol><li>Pitch stability exiting</li><li>Dive forward angle on exi</li></ol>		A  Dive forward less that	n 30°	Α	Dive forward less than 30°	A
Collapse occurs		No		Α	No	Α
6. Pitch stability operati accelerated flight	ng controls during	Α				
Collapse occurs		No		Α	No	Α
7. Roll stability and dam Oscillations	pping	<b>A</b> Reducing		Α	Reducing	Α
8. Stability in gentle spir Tendency to return to stra		A Spontaneous exit		Α	Spontaneous exit	Α

O Debasias a suiting a fully developed animal dive	В			
9. Behaviour exiting a fully developed spiral dive Initial response of glider (first 180°)	Immediate reduction of rate of turn	Α	No immediate reaction	В
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 normal flight	Less than 720°, spontaneous recovery	Α	Less than 720°, spontaneous recovery	Α
10. Symmetric front collapse Approximately 30 % chord	В			
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		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	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Entry	Spontaneous in less than 3 s	A	Spontaneous in 3 s to 5 s	В
Recovery	Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Keeping course	A
Dive forward angle on exit / Change of course  Cascade occurs	No	A	No	A
	No	A	No	A
Folding lines used  With accelerator	110	^	No	^
	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Entry	Spontaneous in 3 s to 5 s	В	Spontaneous in 3 s to 5 s	В
Recovery	·		•	
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	Α	Dive forward 0° to 30° / Keeping course	A
Cascade occurs	No	A		A
Folding lines used	No	А	No	Α
11. Exiting deep stall (parachutal stall)  Deep stall achieved	A 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	Α	Spontaneous in less than 3 s	Α
Cascade occurs	No	Α	No	Α
13. Recovery from a developed full stall  Dive forward angle on exit	B Dive forward 30° to 60°	В	Dive forward 0° to 30°	Α
Collapse	No collapse		No collapse	A
Cascade occurs (other than collapses)	No		No	Α
Cascade occurs (order than collapses)		, · ·		

Rocking back	Less than 45°	Α	Less than 45°	Α
Line tension	Most lines tight	Α	Most lines tight	Α
14. Asymmetric collapse Small asymmetric collapse	С			
Change of course until re-inflation / Maximum	Less than 90° / Dive or roll angle 0° to 15°	Α	Less than 90° / Dive or roll angle 15° to 45°	Α
dive forward or roll angle 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				
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	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
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°	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
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	90° to 180° / Dive or roll angle 15° to 45°	В	$90^{\circ}$ to $180^{\circ}$ / Dive or roll angle $45^{\circ}$ to $60^{\circ}$	С
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	А
Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	Α	More than 50 % of the symmetric control travel	Α
16. Trim speed spin tendency	A			
Spin occurs	No	Α	No	Α
17. Low speed spin tendency Spin occurs	A No	Α	No	Α
49. Deceyany from a developed onin	В			
<b>18. Recovery from a developed spin</b> Spin rotation angle after release	Stops spinning in 90° to 180°	В	Stops spinning in 90° to 180°	В
Cascade occurs	No	Α	No	Α
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 span	Α	Remains stable with straight span	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
Cascade occurs	No	Α	No	Α
20. Big ears	В			
Entry procedure	Dedicated controls	Α	Dedicated controls	Α
Behaviour during big ears	Stable flight	Α	Stable flight	Α
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in 3 s to 5 s	В
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
21. Big ears in accelerated flight	<b>A</b>			
Entry procedure	Dedicated controls	Α	Dedicated controls	Α
Behaviour during big ears	Stable flight	Α	Stable flight	Α
Recovery	Spontaneous in 3 s to 5 s	Α	Spontaneous in 3 s to 5 s	Α
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	Α
22. Alternative means of directional control	A Ves	٨	Vac	٨
180° turn achievable in 20 s	Yes	А	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