## AIR TURQUOISE SA | PARA-TEST.COM

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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Manufacturer	Swing Flugsportgeräte GmbH	Certification number	P	PG_2150.2023		
Address	An der Leiten 4 82290 Landsberied Germany	Flight test	2	5.05.2023		
Glider model	VERSO RS XXS	Classification	В	6		
Serial number	99398	Representative	None			
Trimmer	no	Place of test	Villeneuve			
Folding lines used	no		•			
r bluing intes used	no					
Test pilot		Light pilot under Air Turquoise supervision	А	lexandre Jofresa		
Harness		Woody Valley - Wani Light 2 S	C	Dudek - Zero Gravity M		
Harness to risers di	stance (cm)	41	4	3		
Distance between risers (cm)		40	4	46		
Total weight in flight (kg)		55	1	100		
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1. Inflation/Take-off		A				
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	t	В				
Trim speed more than 30 k	km/h	Yes	A	Yes	A	
Speed range using the con	itrols larger than 10 km/h	Yes	A	Yes	A	
Minimum speed		Less than 25 km/h	A	25 km/h to 30 km/h	В	
4. Control movement Max weight in flight up t	a 80 kg	A				
Max. weight in flight up to 80 kg		Increasing / greater than 55 cm	Δ	not available	0	
Symmetric control pressure / travel		increasing / greater than 55 cm	~		0	
Symmetric control pressure	e / travel	not available	0	Increasing / greater than 60 cm	А	
Max. weight in flight grea		notavallabio	•	hierodoling y groater than oo oni		
Symmetric control pressure / travel						
Symmetric control pressure	<b>iter than 100 kg</b> e / travel	not available	0	not available	0	
Symmetric control pressure 5. Pitch stability exiting a	<b>iter than 100 kg</b> e / travel <b>iccelerated flight</b>	not available A	0	not available	0	
Symmetric control pressure 5. Pitch stability exiting a Dive forward angle on exit	nter than 100 kg e / travel nccelerated flight	not available <b>A</b> Dive forward less than 30°	0 A	not available Dive forward less than 30°	0 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	A
Cascade occurs	No	А	No	А
Folding lines used	No	А	No	А
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 less than 3 s	А
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Keeping course	A
Cascade occurs	No	А	No	А
Folding lines used	No	А	No	А
With accelerator				
Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Keeping course	A
Cascade occurs	No	А	No	А
Folding lines used	No	А	No	А
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	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	В			
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 30° to 60°	В
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	Α
14. Asymmetric collapse	Α			
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°	A	Less than 90° / Dive or roll angle 15° to 45°	A
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	Α
Total change of course	Less than 360°	А	Less than 360°	Α
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	А	No	А
Large asymmetric collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 0° to 15°	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	Α
Folding lines used	No	А	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 0° to 15° $$	A	Less than 90° / Dive or roll angle $15^{\circ}$ to $45^{\circ}$	A
Re-inflation behaviour				
	Spontaneous re-inflation	А	Spontaneous re-inflation	A

\*This standard is NOT covered by accreditation D-IS-19457-01 Test Report generated automatically by AIR TURQUOISE SA, valid without signature Rev 07 | 04.03.2022 // ISO | 91.22 // Page 5 of 6

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	А	No	А
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° 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	А	No	А
15. Directional control with a maintained asymmetric collapse	Α			
Able to keep course	Yes	А	Yes	А
$180^\circ$ 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	А	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	Stable flight	А	Stable flight	А
maintaining big ears				
22. Alternative means of directional control	Α			
180° turn achievable in 20 s		А	Yes	А
Stall or opin occure	Yes			
Stall of spiri occurs	Yes No	А	No	А
23. Any other flight procedure and/or configuration described in the user's manual	Yes No O	A	No	A
23. Any other flight procedure and/or configuration described in the user's manual Procedure works as described	Yes No 0 not available	A 0	No not available	A 0
23. Any other flight procedure and/or configuration described in the user's manual Procedure works as described Procedure suitable for novice pilots	Yes No <b>0</b> not available not available	A 0 0	No not available not available	A 0 0
23. Any other flight procedure and/or configuration described in the user's manual Procedure works as described Procedure suitable for novice pilots Cascade occurs	Yes No 0 not available not available not available	A 0 0	No not available not available not available	A 0 0

24. Comments of test pilot