## AIR TURQUOISE SA | PARA-TEST.COM

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test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes

Manufacturer



PG\_2263.2023

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

Certification

Fly-Market Flugsport-Zubehör

	Manadatarer	riy-warket riugsport	-Zubenoi	Certification		F G_2203.2023	
	Address	Am Schönebach 3 87637 Eisenberg Germany		number Flight te	est	19.09.2023	
	Glider model	Sir Edmund 3 17		Classification		В	
	Serial number	2k23-Sample-17-047		Representative		None	
	Trimmer	no		Place of test		Villeneuve	
				Flace of lest		villerieuve	
	Folding lines used	no					
	Test pilot		Nicole Fedele			Claude Thurnheer	
Harness Harness to risers distance (cm) Distance between risers (cm) Total weight in flight (kg)		Woody Valley srl Wani Light 2 S 41 40 60		Advance Thun AG Success 4 M 43 44 85			
	1. Inflation/Take-off		A				
	Rising behaviour		Smooth, easy and consta	ant rising	Α	Smooth, easy and constant rising	Α
	Special take off technique	required	No		Α	No	Α
	2 Landing		^				
	2. Landing		A		^	Na	^
	Special landing technique		No		Α	No	A
	3. Speed in straight flight		Α				
Trim speed more than 30 km/h		Yes		Α	Yes	Α	
	Speed range using the cor	ntrols larger than 10 km/h	Yes		Α	Yes	Α
	Minimum speed		Less than 25 km/h		Α	Less than 25 km/h	Α
	4. Control movement		A				
	Max. weight in flight up to 80 kg						
	Symmetric control pressure / travel		Increasing / greater than	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 grea	_					_
	Symmetric control pressure / travel		not available		0	not available	0
	5. Pitch stability exiting a	accelerated flight	Α				
	Dive forward angle on exit		Dive forward less than 30	0°	Α	Dive forward less than 30°	Α
	Collapse occurs		No		Α	No	Α
	6. Pitch stability operating	ng controls during	A				
	Collapse occurs		No		Α	No	Α
	Collapse Occurs				,,		^
	7. Roll stability and damp	oing	Α				
	Oscillations		Reducing		Α	Reducing	Α
	0.04 1.00		A				
	8. Stability in gentle spira		A Constanting out		^	Constant out with	,
	Tendency to return to strai	gnt flight	Spontaneous exit		Α	Spontaneous exit	Α

Interesting response of glober (first 180*) Tondoncy to return to straight light Sportnermous setting force decreasing, rate of this observation of a table of turn and or the straight light Sportnermous setting force decreasing, rate of this observation of the straight light Sportnermous setting force decreasing, rate of this observation of the straight light Sportnermous setting force decreasing, rate of this observation of the straight light Sportnermous setting force decreasing, rate of this observation of the straight light Sportnermous setting force decreasing, rate of this observation of the straight light Sportnermous setting force decreasing, rate of this observation of the straight light Sportnermous setting force decreasing, rate of this observation of the straight light Sportnermous setting force decreasing, rate of this observation of the straight light Sportnermous setting force decreasing, rate of this observation of the straight light Sportnermous setting force decreasing, rate of this observation of the straight light light Sportnermous setting force decreasing, rate of this observation of the straight light light light Sportnermous setting force decreasing, rate of this observation of the straight light li	9. Behaviour exiting a fully developed spiral dive	A			
decreaming decreaming decreaming decreaming decreaming decreaming and decreaming	Initial response of glider (first 180°)		Α	Immediate reduction of rate of turn	Α
Name	Tendency to return to straight flight		Α		Α
Approximately 30 % chord         Approximately 30 % chord         A Rocking back less than 45°         A Rocking back less than 3 s         A Rocking back less than 45°         A Rocki	Turn angle to recover normal flight	Less than 720°, spontaneous recovery	Α	Less than 720°, spontaneous recovery	Α
Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward or 10 30" / Keeping course A Dive forward or 10 30" / Keeping course A Dive forward or 10 30" / Keeping course A No A Recovery Recovery Spontaneous in less than 3 s A No A	10. Symmetric front collapse Approximately 30 % chord	A			
Dive forward angle on exit Change of course    Dive forward 0" to 30" / Keeping course	Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Cascade occurs  No  No  A No  Recovery  Spontaneous in less than 3 s  A No  Cascade occurs  No  No  A	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Folding lines used  No At least 50% chord Entry Rocking back less than 45° A Rocking back less than 3 s A Dive forward or to 30° / Keeping course A No A No A No A No A Rocking back less than 45° A Rocking back less than 3 s A Rocking back less than 4 s A Rocking back less than 4 s A Rocking back less than	Dive forward angle on exit Change of course	Dive forward 0° to 30° / Keeping course	Α	Dive forward 0° to 30° / Keeping course	Α
At least 50% chord Entry Rodoing back less than 45° A Rodoing back less than 3 s A Dive forward angle on exit / Change of course Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Rodoing lines used No A No A No A Rodoing back less than 45° A R	Cascade occurs	No	Α	No	Α
Entry Rocking back less than 45° A Rocking back less than 45° A Rocking back less than 45° A Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward or to 30° / Keeping course A Cascade occurs No No A No A No A No A No A With accelerator  Entry Rocking back less than 45° A Rock	Folding lines used	No	Α	No	Α
Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward of 10 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A No A No A No A No A With accelerator  Entry Rocking back less than 45° A Rocking back less than 45° A Rocking back less than 45° A Spontaneous in less than 3 s A No A		Dealting healt loss than 450	^	Dealting heads less than 450	^
Dive forward angle on exit / Change of course  Dive forward 0° to 30° / Keeping course  A Dive forward 0° to 30° / Keeping course  A No  A No  A No  A No  A No  AWith accelerator  Entry  Rocking back less than 45°  A Dive forward 0° to 30° / Keeping course  A Dive forward 0° to 30° / Keeping course  A No  11. Exiting deep stall (parachutal stall)  A Yes  A Yes  A Yes  A Yes  A Ves  A Ves  A Change of course  Change of course  Change of course less than 45°  A Changing course less than 45°  A Changing course less than 45°  A Rocking back les	·	· ·			
Cascade occurs  No No A No No A No No A No No A No With accelerator  Entry Rodking back less than 45° A Recovery  Spontaneous in less than 3 s A Dive forward or to 30° / Keeping course A Cascade occurs No No A	•	·			
Folding lines used No No A No No A No No A No Mith accelerator  Entry Rocking back less than 45° A Rocking back less than 45° A Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A No A N	-				
With accelerator  Entry Rocking back less than 45° A Rocking back less than 45° A Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward angle on exit / Change of course Dive forward 0° to 30° / Keeping course A Dive forward 0° to 30° / Keeping course A No A N					
Entry Rocking back less than 45° A Rocking back less than 45° A Recovery  Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward or to 30° / Keeping course A Dive forward or to 30° / Keeping course A Dive forward or to 30° / Keeping course A Dive forward or to 30° / Keeping course A Dive forward or to 30° / Keeping course A Dive forward or to 30° / Keeping course A Dive forward or to 30° / Keeping course A Dive forward or to 30° / Keeping course A Dive forward or to 30° / Keeping course A Dive forward or to 30° / Keeping course A Dive forward or to 30° / Keeping course A Dive forward or to 30° / Keeping course A Dive forward or to 30° / Keeping course I Dive forward or to 3	•	No	А	No	А
Recovery  Spontaneous in less than 3 s  A Spontaneous in less than 3 s  A Spontaneous in less than 3 s  A Dive forward angle on exit / Change of course  Dive forward 0° to 30° / Keeping course  A Dive forward 0° to 30° / Keeping course  A No  A No  A No  A No  A No  A No  A TI. Exiting deep stall (parachutal stall)  Deep stall achieved  Yes  A Yes  A Yes  A Spontaneous in less than 3 s  A Spontaneous in less than 45°  A Change of course  Changing course less than 45°  A Changing course less than 45°  A Changing course less than 45°  A Spontaneous in less than 3 s  A Spontaneous in less than 45°  A No  Cascade occurs  A No  Cascade occurs  A No  Cascade occurs  A No  Cascade occurs  A					
Dive forward angle on exit / Change of course  Dive forward 0° to 30° / Keeping course  A Dive forward 0° to 30° / Keeping course  A No  A	Entry	-	А	-	Α
Cascade occurs  No  No  A  No  A  No  A  No  A  No  A  11. Exiting deep stall (parachutal stall) Deep stall achieved  Yes  A  Recovery  Spontaneous in less than 3 s  A  Dive forward angle on exit  Changing course less than 45°  A  Cascade occurs  No  A  Spontaneous in less than 45°  A  Changing course less than 45°  A  Cascade occurs  No  A  Spontaneous in less than 3 s  A  Spontaneous in less than 3 s  A  Spontaneous in less than 3 s  A  Cascade occurs  No  A  No  A  Spontaneous in less than 3 s  A  Cascade occurs  No  A  No  A  No  A  No  A  No  A  Cascade occurs  No  A  No  A  No  A  No  A  No  A  No  A  Cascade occurs  No  A  Cascade occurs  No  A  Cascade occurs  No  A  Collapse	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Folding lines used  No A No	Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	Α	Dive forward 0° to 30° / Keeping course	Α
11. Exiting deep stall (parachutal stall) Deep stall achieved Yes A Yes A Yes A Recovery Spontaneous in less than 3 s A Dive forward angle on exit Dive forward 0° to 30° A Change of course Changing course less than 45° A Cascade occurs No A Cascade occurs No A Cascade occurs A Recovery Spontaneous in less than 3 s A Spontaneous in less than 45° A Spontaneous in less than 45° A Changing course less than 45° A Spontaneous in less than 45° A Changing course less than 45° A Changing course less than 45° A Spontaneous in less than 3 s A Cascade occurs No A Spontaneous in less than 3 s A Spontaneous in less than 3 s A Cascade occurs No A No A No A Cascade occurs No A No A No A No A Cascade occurs No A No A No A No A Cascade occurs No A No A No A No A No A Cascade occurs No A No Cascade occurs No A No A No A No A No A No A Cascade occurs A No Cascade occurs No A No Cascade occurs A No Cascade occurs No A No A No A No A No A A No Cascade occurs A No Cascade oc	Cascade occurs	No	Α	No	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° A Change of course Changing course less than 45° A Changing course less than 45° A Cascade occurs No A Cascade occurs A Recovery A Recovery Spontaneous in less than 3 s A Cascade occurs No A Cascade occurs No A Recovery From a developed full stall Dive forward 30° to 60° B Dive forward 30° to 60° B Collapse No collapse A No collapse A Recovery A Recovery From a developed full stall Dive forward 30° to 60° A Recovery A Recovery From a developed full stall Dive forward 30° to 60° A Recovery A Recovery From a developed full stall Dive forward 30° to 60° A Recovery From a developed full stall Dive forward 30° to 60° A Recovery From a developed full stall Dive forward 30° to 60° A Recovery Recovery From a developed full stall Dive forward 30° to 60° A Recovery From a developed full stall Dive forward 30° to 60° A Recovery From a developed full stall Dive forward 30° to 60° A Recovery From a developed full stall Dive forward 30° to 60° A Recovery From a developed full stall Dive forward 30° to 60° A Recovery From a developed full stall Dive forward 30° to 60° A Recovery From a developed full stall Dive forward 30° to 60° A Recovery From a developed full stall Dive forward 30° to 60° A Recovery From a developed full stall Dive forward 30° to 60° A Recovery From a developed full stall Dive forward 30° to 60° A Recovery From a developed full stall Dive forward 30° to 60° A Recovery From a developed full stall Dive forward 30° to 60° A Recovery From a developed full stall Dive forward 30° to 60° A Recovery From a developed full stall Dive forward 30° to 60° A Recovery From a developed full stall Dive forward 30° to 60° A Recovery From a developed full stall Dive forward 30° to 60° A Recovery From a developed full stall Dive forward 30° to 60° A Recovery From a developed full stall Dive forward 30° to 60° A Recovery From a developed full stall Dive forward 30° to 60° A Re	Folding lines used	No	Α	No	Α
Recovery  Spontaneous in less than 3 s  A Spontaneous in less than 3 s  A Dive forward on to 300 A  Change of course  Changing course less than 450 A  Changing course less than 450 A  Cascade occurs  No  A  No  A  Spontaneous in less than 3 s  A  Changing course less than 450 A  A  Changing course less than 450 A  A  No  A  12. High angle of attack recovery  Recovery  Spontaneous in less than 3 s  A  No  Cascade occurs  No  A  No  A  No  A  No  A  No  B  Dive forward 300 to 600 B  Collapse  A  No collapse  A  No collapse  A	11. Exiting deep stall (parachutal stall)		۸	Vec	Λ
Dive forward angle on exit  Dive forward 0° to 30°  A Dive forward 0° to 30°  A Changing course less than 45°  A No  A No  A Spontaneous in less than 3 s  A Spontaneous in less than 3 s  A Spontaneous in less than 3 s  A No  B Dive forward 30° to 60°  B A No collapse  A No collapse					
Change of course  Changing course less than 45°  A Changing course less than 45°  A Cascade occurs  No  A  12. High angle of attack recovery  Recovery  Spontaneous in less than 3 s  A Spontaneous in less than 3 s  A Spontaneous in less than 3 s  A No  B Dive forward 30° to 60°  B A No  Collapse					
Cascade occurs  No A  12. High angle of attack recovery Recovery  Spontaneous in less than 3 s A  Cascade occurs  No A  No A  No A  No A  Dive forward 30° to 60° B  Collapse  No collapse  A  No collapse  A  No					
12. High angle of attack recovery  Recovery  Spontaneous in less than 3 s  A  Spontaneous in less than 3 s  A  Cascade occurs  No  No  A  No  A  No  A  No  A  Cascade occurs  Dive forward angle on exit  Dive forward 30° to 60°  B  Dive forward 30° to 60°  B  Collapse  A  No collapse  A  No collapse					
Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A  Cascade occurs No A No A  13. Recovery from a developed full stall B  Dive forward angle on exit Dive forward 30° to 60° B Dive forward 30° to 60° B  Collapse A No collapse A			Α	No	Α
Cascade occurs  No A No A No A  13. Recovery from a developed full stall Dive forward angle on exit  Dive forward 30° to 60° B Dive forward 30° to 60° B No collapse A No collapse A	12. High angle of attack recovery Recovery		Α	Spontaneous in less than 3 s	Α
Dive forward angle on exit  Dive forward 30° to 60°  B Dive forward 30° to 60°  B Over forward 30° to 60°  A No collapse  A		No	Α	No	Α
Dive forward angle on exit  Dive forward 30° to 60°  B Dive forward 30° to 60°  B Over forward 30° to 60°  A No collapse  A	13. Recovery from a developed full stall	В			
	Dive forward angle on exit	Dive forward 30° to 60°	В	Dive forward 30° to 60°	В
Cascade occurs (other than collapses)  No  A  No  A	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	A			
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 0° to 15°	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				
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
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°	Α	Less than 90° / Dive or roll angle 0° to 15°	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	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
15. Directional control with a maintained asymmetric collapse	A			
Able to keep course	Yes	Α	Yes	Α
180° turn away from the collapsed side possible in 10 s	Yes	Α	Yes	Α
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	Α			
Spin occurs	No	Α	No	Α
18. Recovery from a developed spin	Α			
Spin rotation angle after release	Stops spinning in less than 90°	Α	Stops spinning in less than 90°	Α
Cascade occurs	No	Α	No	Α
19. B-line stall	0			
Change of course before release	not available	0	not available	0
Behaviour before release	not available	0	not available	0
Recovery	not available	0	not available	0
Dive forward angle on exit	not available	0	not available	0
Cascade occurs	not available	0	not available	0
20. Big ears	Α			
Entry procedure	Standard technique	Α	Standard technique	Α
Behaviour during big ears	Stable flight	Α	Stable flight	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
21. Big ears in accelerated flight	Α			
Entry procedure	Standard technique	Α	Standard technique	Α
Behaviour during big ears	Stable flight	Α	Stable flight	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
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	Α	Stable flight	Α
22. Alternative means of directional control	<b>A</b>			
180° turn achievable in 20 s	Yes	Α	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