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+A1:2021* & NfL 2-565-20

Manufacturer	Sol Paragliders	Certification number	F	PG_2184.2023		
Address Rua Walter Marquardt,		Flight test		07.02.2023		
	1180 cp 370 89259-565 Jaraguà do Sul, S.C. Brazil		Ū	1.02.2020		
Glider model Cyclus 2 XL		Classification	В			
Serial number 25216		Representative	Ν	lone		
Trimmer no		Place of test	V	Villeneuve		
Folding lines used	no					
Test pilot		Alain Zoller	A	Anselm Rauh		
Harness		Advance - Success 4 L	S	Supair - Evo XC 3 L		
Harness to risers distance (cm)		43	4	44		
Distance between risers (cm)		46	4	48		
Total weight in flight (kg)		105		25		
i otai weigint in ingi	·· (ny)	100	1	20		
1. Inflation/Take-off		Α				
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	А	No	А	
3. Speed in straight flight		Α				
Trim speed more than 30 km/h		Yes	Α	Yes	А	
Speed range using the controls larger than 10 km/h		Yes	А	Yes	А	
Minimum speed		Less than 25 km/h	А	Less than 25 km/h	А	
4. Control movement		Α				
Max. weight in flight up t						
Symmetric control pressure / travel		not available	0	not available	0	
Max. weight in flight 80 kg to 100 kg		not available	0	not available	0	
Symmetric control pressure / travel		not available	0	not available	0	
Max. weight in flight greater than 100 kg		Increasing / greater than 65 cm	А	Increasing / greater than 65 cm	^	
Symmetric control pressure / travel 5. Pitch stability exiting accelerated flight			A	increasing / greater than 65 cm	A	
Dive forward angle on exit		A Dive forward less than 30°	А	Dive forward less than 30°	А	
Collapse occurs		No	A	No	A	
6. Pitch stability operating controls during accelerated flight		A	~			
Collapse occurs		No	А	No	А	
7. Roll stability and damping		Α				
Oscillations		Reducing	А	Reducing	А	
8. Stability in gentle spir	als	A				
Tendency to return to straight flight		Spontaneous exit	А	Spontaneous exit	А	
9. Behaviour exiting a fully developed spiral dive		Α				
Initial response of glider (first 180°)		Immediate reduction of rate of turn	А	Immediate reduction of rate of turn	А	
Tendency to return to straight flight		Spontaneous exit (g force decreasing, rate of turn decreasing)	A	Spontaneous exit (g force decreasing, rate of turn decreasing)	A	
Turn angle to recover normal flight		Less than 720°, spontaneous recovery	A	Less than 720°, spontaneous recovery	A	
10. Symmetric front colla	apse	Α				
Approximately 30 % cho	ord					
-	-	•				

*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 1 of 3

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Small asymmetric collapse with fully activated accelerator Change of course until re-inflation / Maximum dive forward or Less than 90° / Dive or roll angle A 90° to 180° / Dive or roll angle B	Cascade occurs	No	А	No	А
Change of course until re-inflation / Maximum dive forward or Less than 90° / Dive or roll angle A 90° to 180° / Dive or roll angle B	Folding lines used	No	А	No	А
Change of course until re-inflation / Maximum dive forward or roll angle Less than 90° / Dive or roll angle A 90° to 180° / Dive or roll angle B roll angle 15° to 45° 15° to 45° 15° to 45° 15° to 45°	Small asymmetric collapse with fully activated accelerator				
	Change of course until re-inflation / Maximum dive forward or roll angle		A		В

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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
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° to 180° / Dive or roll angle 15° to 45°	В
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	Α			
collapse				
Able to keep course	Yes	A	Yes	A
180° turn away from the collapsed side possible in 10 s	Yes	A	Yes	A
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	A	•	NI-	
Spin occurs	No	A	No	A
17. Low speed spin tendency	A	۸	No	^
Spin occurs	No	A	No	A
18. Recovery from a developed spin	A Stops opinping in loss than 00°	^	Stops opinning in loss than 00°	^
Spin rotation angle after release	Stops spinning in less than 90°	A A	Stops spinning in less than 90° No	A
Cascade occurs 19. B-line stall	No A	A	NO	A
Change of course before release	A Changing course less than 45°	۸	Changing course less than 45°	^
Behaviour before release	Remains stable with straight span	A A	Remains stable with straight span	A 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	Dive forward 0° to 30°	A
Cascade occurs	No		No	A
20. Big ears	A	~		~
Entry procedure	Dedicated controls	А	Dedicated controls	А
Behaviour during big ears	Stable flight	A	Stable flight	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	Dive forward 0° to 30°	A
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	А	Stable flight	А
22. Alternative means of directional control	Α			
22. Alternative means of directional control		А	Yes	А
180° turn achievable in 20 s	Yes			
	Yes No	А	No	А
180° turn achievable in 20 s		A	No	A
180° turn achievable in 20 s Stall or spin occurs 23. Any other flight procedure and/or configuration	No	A 0	No not available	A 0
 180° turn achievable in 20 s Stall or spin occurs 23. Any other flight procedure and/or configuration described in the user's manual 	No 0			

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