AIR TURQUOISE SA | PARA-TEST.COM

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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes

Approximately 30 % chord



Flight test report: EN 926-2:2013 & LTF 91/09

Manufacturer Sol Paragliders		Certification number		PG_1682.2020		
Address Rua Walter Marquardt, 1180 cp 370 89259-565 Jaraguà do Sul, S.C. Brazil		Flight test	21.05.2020			
Glider model	Sycross 2 S	Classification Representative Place of test		B None Villeneuve		
Serial number	22142					
Trimmer	no					
Folding lines used	no					
Test pilot		Philippe Dupont	C	Claude Thurnheer		
Harness		Supair - Altiplume S	Supair - Evo XC 3 M			
Harness to risers distance (cm) Distance between risers (cm)		44		44		
		40	44			
Total weight in flig	` '	75	90			
Total weight in hig	iit (kg)	73	č	00		
1. Inflation/Take-off		A				
Rising behaviour		Smooth, easy and constant rising	A	Smooth, easy and constant rising	Α	
Special take off technique	e required	No	Α	No	Α	
2. Landing		A	^	Nie	^	
Special landing technique required		No A	Α	No	Α	
3. Speed in straight flight		Yes	Α	Yes	Α	
Trim speed more than 30 km/h Speed range using the controls larger than 10 km/h		Yes	Α	Yes	Α	
Minimum speed	Shiros larger than To knim	Less than 25 km/h	Α	Less than 25 km/h	Α	
4. Control movement		A		2000 (1.0.1. 20 1.1.1.1.1	, ,	
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 greater than 100 kg						
Symmetric control pressure / travel		not available	0	not available	0	
5. Pitch stability exiting	accelerated flight	A				
Dive forward angle on ex	it	Dive forward less than 30°	Α	Dive forward less than 30°	Α	
Collapse occurs		No	Α	No	Α	
6. Pitch stability operatiflight	ing controls during accelerated	A				
Collapse occurs		No	Α	No	Α	
7. Roll stability and dan	nping	A Deducies		De destina		
Oscillations	wala	Reducing	Α	Reducing	Α	
8. Stability in gentle spi		A Spontaneous evit	٨	Spontaneous svit	٨	
Tendency to return to stra		Spontaneous exit	Α	Spontaneous exit	Α	
 Behaviour exiting a fully developed spiral dive 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	Α	Spontaneous exit (g force	A	
Turn angle to recover not		decreasing, rate of turn decreasing) Less than 720°, spontaneous	Α	decreasing, rate of turn decreasing)	A	
		recovery		recovery	,	
10. Symmetric front col	lapse	Α				

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 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	Α	Dive forward 0° to 30° / Keeping	Α
	course		course	
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
With accelerator				
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	
11. Exiting deep stall (parachutal stall)	Α			
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		No	Α
12. High angle of attack recovery	A		NO	
		Α	Chantanagua in loga than 2 a	Α
Recovery Cascade occurs	Spontaneous in less than 3 s		Spontaneous in less than 3 s	
	No	Α	No	Α
13. Recovery from a developed full stall	A		Diver for more of 00 to 000	
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
Collapse	No collapse	A	No collapse	A
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
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		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 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		No	
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 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	Α	No (or only a small number of collapsed cells with a spontaneous	Α
	reinflation)		reinflation)	
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
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	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		No	
15. Directional control with a maintained asymmetric	A			
collapse				
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	В			
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	Recovery through pilot action in less than a further 3 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	В			
Entry procedure	Dedicated controls	Α	Dedicated controls	Α
Behaviour during big ears	Stable flight	Α	Stable flight	Α
Recovery	Recovery through pilot action in less than a further 3 s	В	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			
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
	and an all all the	0	not available	0
Procedure suitable for novice pilots	not available	0	Tiot available	U

