## 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 & NfL 2-565-20

Manufacturer Skywalk GmbH & Co. KG		Certification number	F	PG_1785.2021	
Address Windeckstr. 4		Flight test	0	2.03.2021	
	83250 Marquartstein		-		
	Germany				
Glider model	Spirit 105+	Classification	E	3	
Serial number	TL2 M	Representative	None		
Trimmer	no	Place of test		/illeneuve	
-	-		v		
Folding lines used	no				
Test pilot		Nicole Fedele	Δ	lexandre Jofresa	
Harness		Advance - Success 4 M		Advance - Success 4 M	
				44	
Harness to risers distance (cm)		44			
Distance between risers (cm)		40	4	48	
Total weight in flight (kg)		65	1	105	
1. Inflation/Take-off		В			
Rising behaviour		Smooth, easy and constant rising	А	Easy rising, some pilot correction is	В
		Chrotin, casy and constant hising	А	required	5
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	t	Α			
Trim speed more than 30 km/h		Yes	А	Yes	А
Speed range using the cor	ntrols 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	o 80 kg				
Symmetric control pressure / travel		Increasing / greater than 55 cm	А	not available	0
Max. weight in flight 80 k	g to 100 kg				
Symmetric control pressure / travel		not available	0	not available	0
Max. weight in flight greater than 100 kg					
Symmetric control pressure		not available	0	Increasing / greater than 65 cm	Α
5. Pitch stability exiting accelerated flight		Α			
Dive forward angle on exit		Dive forward less than 30°		Dive forward less than 30°	A
Collapse occurs		No	A	No	Α
6. Pitch stability operatin flight	ig controls during accelerated	Α			
Collapse occurs		No	А	No	А
7. Roll stability and damp	oing	A			
Oscillations		Reducing	А	Reducing	А
8. Stability in gentle spirals		A			
Tendency to return to straight flight		Spontaneous exit	А	Spontaneous exit	А
9. Behaviour exiting a fu	lly developed spiral dive	Α			
Initial response of glider (fi	rst 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)	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	inse	Α			
ro. Oynimetric front cond	,pee				
Approximately 30 % cho					

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Deserves		•		•
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
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	A	Spontaneous in less than 3 s	A
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	A		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		A
Cascade occurs	No	А	No	А
Folding lines used	No	А	No	А
11. Exiting deep stall (parachutal stall)	A			
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°	A	Dive forward 0° to 30°	A
Change of course	Changing course less than 45°	A	Changing course less than 45°	A
Cascade occurs	No		No	A
12. High angle of attack recovery	A	А	No	~
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Cascade occurs	No	A	No	A
13. Recovery from a developed full stall	B	Λ		~
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 30° to 60°	В
Collapse	No collapse	A	No collapse	A
Cascade occurs (other than collapses)	No	A	No	A
Rocking back	Less than 45°	A	Less than 45°	A
Line tension	Most lines tight	A	Most lines tight	A
14. Asymmetric collapse	B		Moot moo agrit	
Small asymmetric collapse	2			
Change of course until re-inflation / Maximum dive forward or	Less than 90° / Dive or roll angle	А	Less than 90° / Dive or roll angle	А
roll angle	0° to 15°		15° to 45°	
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				
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	А
Folding lines used	No	А	No	А
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° to 45°	A
Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	A

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Total change of course	Less than 360°	A	Less than 360°	A
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 0° to 15°	A	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	Α	No	А
15. Directional control with a maintained asymmetric collapse	Α			
Able to keep course	Yes	Α	Yes	А
180° 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	A	More than 50 % of the symmetric control travel	А
16. Trim speed spin tendency	Α			
Spin occurs	No	А	No	А
17. Low speed spin tendency	Α			
Spin occurs	No	Α	No	А
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°	А
Cascade occurs	No	A	No	А
19. B-line stall	A			
Change of course before release	Changing course less than 45°	A	Changing course less than 45°	А
Behaviour before release	Remains stable with straight span	A	Remains stable with straight span	А
Recovery	Spontaneous in less than 3 s	Α	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	А	No	A
20. Big ears	Α			
Entry procedure	Standard technique	A	Standard technique	A
Behaviour during big ears	Stable flight	Α	Stable flight	Α
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	A			
Entry procedure	Standard technique	A	Standard technique	A
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
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	A	Stable flight	А
22. Alternative means of directional control	A			
180° turn achievable in 20 s	Yes	А	Yes	А
Stall or spin occurs	No	А	No	А
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
24. Comments of test pilot				