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 & LTF 91/09

Manufacturer	Skywalk GmbH & Co. KG	Certification number	F	PG_1699.2020		
Address	Windeckstr. 4	Flight test	1	9.05.2020		
	83250 Marquartstein Germany					
Glider model	Cayenne 6 S	Classification	C	;		
Serial number	CA12-Rev6-S6	Representative	Ν	lone		
Trimmer	no	Place of test	V	/illeneuve		
Folding lines used	no		·			
Test pilot		Claude Thurnheer	Α	lain Zoller		
Harness		Advance - Success 4 M	Α	dvance - Success 4 L		
Harness to risers distance (cm)		44		44		
Distance between risers (cm)		44	46			
Total weight in flight (kg)		85	40 107			
rotar weight in high	(Kg)	00	'	01		
1. Inflation/Take-off		В				
Rising behaviour		Easy rising, some pilot correction is	В	Easy rising, some pilot correction is	В	
	an and in all	required	•	required	•	
Special take off technique 2. Landing	required	No A	A	No	A	
Special landing technique	required	A No	А	No	A	
3. Speed in straight fligh	•	В	7.			
Trim speed more than 30 km/h		Yes	А	Yes	А	
Speed range using the controls larger than 10 km/h		Yes	А	Yes	А	
Minimum speed		25 km/h to 30 km/h	в	Less than 25 km/h	А	
4. Control movement		С				
Max. weight in flight up t	o 80 kg					
Symmetric control pressure / travel		not available	0	not available	0	
Max. weight in flight 80 k	ig to 100 kg					
Symmetric control pressur		Increasing / 45 cm to 60 cm	С	not available	0	
Max. weight in flight grea						
Symmetric control pressur		not available	0	Increasing / 50 cm to 65 cm	С	
5. Pitch stability exiting a	-	A Dive forward loss than 20°	•	Dive forward lass than 20°	•	
Dive forward angle on exit		Dive forward less than 30°	A	Dive forward less than 30° No	A	
Collapse occurs 6 Pitch stability operatin	ig controls during accelerated	No A	A	NO	A	
flight	ig controls during accelerated	~				
Collapse occurs		No	А	No	А	
7. Roll stability and dam	ping	Α				
Oscillations		Reducing	А	Reducing	A	
8. Stability in gentle spira		Α				
Tendency to return to strai		Spontaneous exit	A	Spontaneous exit	A	
9. Behaviour exiting a fu		A		Income distance in the second second		
Initial response of glider (fi		Immediate reduction of rate of turn	A	Immediate reduction of rate of turn	A	
Tendency to return to strai	gnt 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 norn	nal flight	Less than 720°, spontaneous recovery	А	Less than 720°, spontaneous recovery	A	
				• • • • • • • • • • • • • • • • • • •		
10. Symmetric front colla	apse	В				
10. Symmetric front colla Approximately 30 % cho	•					

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Deserves		-		•
Recovery	Spontaneous in 3 s to 5 s	В	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		No	
At least 50% chord				
Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery	Spontaneous in 3 s to 5 s	В	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		No	
With accelerator				
Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery	Spontaneous in 3 s to 5 s	В	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		No	
11. Exiting deep stall (parachutal stall)	Α			
Deep stall achieved	Yes	А	No	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	С			
Dive forward angle on exit	Dive forward 30° to 60°	В	Dive forward 30° to 60°	В
Collapse	No collapse	А	No collapse	А
Cascade occurs (other than collapses)	No	А	No	А
Rocking back	Greater than 45°	С	Greater than 45°	С
Line tension	Most lines tight	А	Most lines tight	А
14. Asymmetric collapse	С			
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 0° to 15°	A
Re-inflation behaviour	Inflates in less than 3 s from start of pilot action	С	Spontaneous re-inflation	A
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		No	
Large asymmetric collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	90° to 180° / Dive or roll angle 15° to 45°	В	Less than 90° / Dive or roll angle 15° to 45°	A
Re-inflation behaviour	Inflates in less than 3 s from start of pilot action	С	Spontaneous re-inflation	A
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		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 15° to 45°	A	Less than 90° / Dive or roll angle 0° to 15°	A
Re-inflation behaviour	Inflates in less than 3 s from start of pilot action	С	Inflates in less than 3 s from start of pilot action	С
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		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	A	Inflates in less than 3 s from start of pilot action	С
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		No	
15. Directional control with a maintained asymmetric collapse	Α			
Able to keep course	Yes	А	Yes	А
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	A	More than 50 % of the symmetric	A
	control travel	~	control travel	Λ
16. Trim speed spin tendency	A	^	No	٨
Spin occurs 17. Low speed spin tendency	No A	A	No	A
Spin occurs	A No	А	No	А
18. Recovery from a developed spin	В	~	110	~
Spin rotation angle after release	Stops spinning in 90° to 180°	в	Stops spinning in less than 90°	А
Cascade occurs	No	A	No	A
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
-	not available not available	0 0	not available not available	
Behaviour before release				0
Behaviour before release Recovery	not available	0	not available	0 0
Behaviour before release Recovery Dive forward angle on exit	not available not available	0 0	not available not available	0 0 0
Behaviour before release Recovery Dive forward angle on exit Cascade occurs	not available not available not available	0 0	not available not available	0 0 0
Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears	not available not available not available B	0 0 0	not available not available not available	0 0 0
Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears Entry procedure	not available not available not available B Standard technique	0 0 0	not available not available not available Standard technique	0 0 0 0
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Behaviour before releaseRecoveryDive forward angle on exitCascade occurs 20. Big ears Entry procedureBehaviour during big earsRecoveryDive forward angle on exit 21. Big ears in accelerated flight Entry procedureBehaviour during big earsRecoveryDive forward angle on exit 21. Big ears in accelerated flight Entry procedureBehaviour during big earsRecoveryDive forward angle on exitBehaviour during big earsRecoveryDive forward angle on exitBehaviour immediately after releasing the accelerator while maintaining big ears 22. Alternative means of directional control 180° turn achievable in 20 sStall or spin occurs 23. Any other flight procedure and/or configuration	<pre>not available not available not available</pre> B Standard technique Stable flight Recovery through pilot action in less than a further 3 s Dive forward 0° to 30° B Standard technique Stable flight Spontaneous in 3 s to 5 s Dive forward 0° to 30° Stable flight No	0 0 0 A A B A A A A A A A	not available not available not available Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Standard technique Stable flight Recovery through pilot action in less than a further 3 s Dive forward 0° to 30° Stable flight	0 0 0 4 4 4 4 4 8 8 8 4 8 4 8

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Procedure suitable for novice pilots	not available	0	not available	0
Cascade occurs	not available	0	not available	0

24. Comments of test pilot