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Route du Pré-au-Comte 8 🔺 CH-1844 Villeneuve 🔺 +41 (0)21 965 65 65

Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



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

Glider modelRhythm SClassificationASerial numberART-S170703-LOBRepresentativeNoneTrimmernoPlace of testVilleneuveFolding lines usednoThurnheer ClaudeZoller AlainHarnessSup' Air - Altiplume SAdvance - Success 4 M	
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Harness Sup' Air - Altiplume S Advance - Success 4 M	
Harness to risers distance (cm) 43 44	
Distance between risers (cm) 40 44	
Total weight in flight (kg)7095	
1. Inflation/Take-off A	
Rising behaviour Smooth, easy and constant rising A Smooth, easy and constant rising	А
Special take off technique required No A No	А
2. Landing A	
Special landing technique required No A No	А
3. Speed in straight flight A	
Trim speed more than 30 km/h Yes A Yes	А
Speed range using the controls larger than 10 km/h Yes A Yes	А
Minimum speed Less than 25 km/h A Less than 25 km/h	A
4. Control movement A	
Max. weight in flight up to 80 kg	
Symmetric control pressure / travel Increasing / greater than 55 cm A not available	0
Max. weight in flight 80 kg to 100 kg	
Symmetric control pressure / travel not available 0 Increasing / greater than 60 cm	А
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 exit Dive forward less than 30° A Dive forward less than 30°	A
Collapse occurs No A No	A
6. Pitch stability operating controls during accelerated A flight	
Collapse occurs No A No	A
7. Roll stability and damping A	
Oscillations Reducing A Reducing	A
8. Stability in gentle spirals A	
Tendency to return to straight flight Spontaneous exit A Spontaneous exit	A
9. Behaviour exiting a fully developed spiral dive A	^
Initial response of glider (first 180°) Immediate reduction of rate of A Immediate reduction of rate of turn	A
Tendency to return to straight flight Spontaneous exit (g force decreasing, rate of turn 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 collapse	Α			
Approximately 30 % 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	Dive forward 0° to 30° Entering a turn of less than 90°	A
Cascade occurs	No	А	No	А
Folding lines used	No	~	No	~
At least 50% chord	Decking back loss than 45°	•	Decling book loss than 45°	•
Entry	Rocking back less than 45°	A	5	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
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 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		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°	Α	Dive forward 0° to 30°	Α
Change of course	Changing course less than 45°	A	Changing course less than 45°	A
Cascade occurs	No	Α	No	A
12. High angle of attack recovery	A			
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	Α			
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
Collapse	No collapse	А	No collapse	А
Cascade occurs (other than collapses)	No	А	No	А
Rocking back	Less than 45°	А	Less than 45°	А
Line tension	Most lines tight	А	Most lines tight	А
14. Asymmetric collapse	A		-	
.				
Small asymmetric collapse	Loop than 00° / Diversity and	^	Less then 00° / Dive as sell as all 0°	^
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	Spontaneous re-inflation	Α	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		No	
Large asymmetric collapse				
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	15° to 45°		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
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	А	No (or only a small number of collapsed cells with a spontaneous	А
	spontaneous reinflation)		reinflation)	
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	Less than 90° / Dive or roll angle	А	90° to 180° / Dive or roll angle 0° to	А
roll angle	15° to 45°		15°	
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		No	
Large asymmetric collapse with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or	Less than 90° / Dive or roll angle	А	90° to 180° / Dive or roll angle 0° to	А
roll angle	15° to 45°		15°	
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	Α	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	А	Yes	А
Amount of control range between turn and stall or spin	More than 50 % of the	А	More than 50 % of the symmetric	А
40 Trim award anin fandanau	symmetric control travel		control travel	
16. Trim speed spin tendency	A No	^	No	^
Spin occurs	-	A	NO	A
17. Low speed spin tendency Spin occurs	A No	А	No	А
18. Recovery from a developed spin	A	A	NO	~
Spin rotation angle after release	Stops spinning in less than 90°	А	Stops spinning in less than 90°	А
Cascade occurs	No	A	No	A
19. B-line stall	A	7.		
Change of course before release	Changing course less than 45°	А	Changing course less than 45°	А
Behaviour before release	Remains stable with straight	А	Remains stable with straight span	А
	span	_		
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	A	No	A
20. Big ears	A Dedicated controls	•	Dedicated controls	•
Entry procedure	Dedicated controls	A	Dedicated controls	A
Behaviour during big ears Recovery	Stable flight Spontaneous in less than 3 s	A A	Stable flight Spontaneous in less than 3 s	A 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	A		А
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°	Α	Dive forward 0° to 30°	A

Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	A	Stable flight	A
22. Alternative means of directional control	Α			
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				

Comments