## AIR TURQUOISE SA | PARA-TEST.COM

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

no

Folding lines used



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

Czech Republic

Manufacturer	Gradient s.r.o.	Certification number	PG_1174.2017
Address	Plzenska 221/130 150 00 Praha 5 - Motol	Date of flight test	22. 06. 2017

Glider model	Aspen 6 30	Classification	С
Serial number	G47301705078	Representative	None
Trimmer	no	Place of test	Villeneuve

Test pilot	Thurnheer Claude	Zoller Alain
Harness	Niviuk - Hamak M	Gin Gliders - Gingo 2 L

Harness to risers distance (cm)4443Distance between risers (cm)4648Total weight in flight (kg)110135

No A No B Yes	A A	Easy rising, some pilot correction is required No	B A
A No B Yes			Α
No B Yes	Α	No	
<b>B</b> Yes	A	No	
Yes			Α
	Α	Yes	Α
Yes	Α	Yes	Α
25 km/h to 30 km/h	В	25 km/h to 30 km/h	В
С			
not available	0	not available	0
not available	0	not available	0
Increasing / 50 cm to 65 cm	С	Increasing / 50 cm to 65 cm	С
A			
Dive forward less than 30°	Α	Dive forward less than 30°	Α
No	Α	No	Α
Α			
No	Α	No	Α
Α			
Reducing	Α	Reducing	Α
Α			
Spontaneous exit	Α	Spontaneous exit	Α
Α			
Immediate reduction of rate of turn	Α	Immediate reduction of rate of turn	Α
Spontaneous exit (g force decreasing, rate of turn decreasing)	Α	Spontaneous exit (g force decreasing, rate of turn decreasing)	Α
	not available  Increasing / 50 cm to 65 cm  A  Dive forward less than 30°  No  A  No  A  Reducing  A  Spontaneous exit  A  Immediate reduction of rate of turn  Spontaneous exit (g force decreasing, rate of turn	not available 0  not available 0  Increasing / 50 cm to 65 cm C  A  Dive forward less than 30° A  No A  No A  Reducing A  Spontaneous exit A  Immediate reduction of rate of turn  Spontaneous exit (g force decreasing, rate of turn	not available  not available  0 not available  Increasing / 50 cm to 65 cm  C Increasing / 50 cm to 65 cm  A Dive forward less than 30°  No  A No  A  Reducing  A  Spontaneous exit  A  Immediate reduction of rate of turn  Spontaneous exit (g force decreasing, rate of turn  A spontaneous exit (g force decreasing, rate of turn  A not available  0 not available  C Increasing / 50 cm to 65 cm  A Dive forward less than 30°  A No  A No  A  Reducing  A Reducing  A Spontaneous exit  A Immediate reduction of rate of turn

Turn angle to recover normal flight	Less than 720°, spontaneous recovery	Α	Less than 720°, spontaneous recovery	Α
10. Symmetric front collapse	С			
Approximately 30 % 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 30° to 60° Keeping	В	Dive forward 0° to 30° Keeping	A
Dive forward angle on exit Change of course	course	Ь	course	A
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 3 s to 5 s	В	Spontaneous in less than 3 s	Α
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping	A	Dive forward 0° to 30° / Keeping	A
Dive forward angle on exit? Change of course	course	^	course	^
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
With accelerator				
Entry	Rocking back greater than 45°	С	Rocking back greater than 45°	С
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	A	Dive forward 30° to 60° / Keeping	В
Oth	course		course	
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
11. Exiting deep stall (parachutal stall)	A Van	۸	Vaa	^
Deep stall achieved	Yes	A	Yes	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
Change of course	Changing course less than 45°	A	Changing course less than 45°	A
Cascade occurs	No	Α	No	Α
12. High angle of attack recovery	A		On authorization land them On	
Recovery Cascade occurs	Spontaneous in less than 3 s No	A A	Spontaneous in less than 3 s No	A A
	B	^	NO .	^
13. Recovery from a developed full stall	Dive forward 0° to 30°	۸	Dive forward 30° to 60°	D
Dive forward angle on exit		A	No collapse	В
Collapse Cascade occurs (other than collapses)	No collapse No	A	No	Α
	Less than 45°	A	Less than 45°	A
Rocking back		A		A
Line tension  14. Asymmetric collapse	Most lines tight C	Α	Most lines tight	Α
14. Asymmetric conapse	C			
Small 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	Less than 90° / Dive or roll angle 0° to 15°	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	Α	No (or only a small number of	Α
Conapac on the opposite side occurs	collapsed cells with a spontaneous reinflation)	,,	collapsed cells with a spontaneous reinflation)	Λ,
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	90° to 180° / Dive or roll angle	В	90° to 180° / Dive or roll angle 15°	В
roll angle	15° to 45°		to 45°	
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	Yes, no turn reversal	С	No (or only a small number of collapsed cells with a spontaneous	Α
			reinflation)	
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	90° to 180° / Dive or roll angle 15° to 45°	В	Less than 90° / Dive or roll angle 15° to 45°	Α
Re-inflation behaviour	Spontaneous re-inflation	Α	Inflates in less than 3 s from start of pilot action	С
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	Α	Yes, no turn reversal	С
	collapsed cells with a spontaneous reinflation)		,	
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
Lawrence Aria and Lawrence and College Aria and College Aria				
Large asymmetric collapse with fully activated accelerator		_	0001 100015: " 1 150	•
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 45° to 60°	С	90° to 180° / Dive or roll angle 45° to 60°	С
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	Yes, no turn reversal	С	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 collapse	Α			
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	A			
Spin occurs	No	Α	No	Α
18. Recovery from a developed spin	A			
Spin rotation angle after release	Stops spinning in less than 90°	Α	Stops spinning in less than 90°	Α
Cascade occurs	No	Α	No	Α
19. B-line stall	С			
Change of course before release	Changing course less than 45°	Α	Changing course less than 45°	Α
Behaviour before release	Remains stable without straight span	С	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 30° to 60°	Α
Cascade occurs	No	Α	No	Α
20. Big ears	В			
Entry procedure	Standard technique	Α	Dedicated controls	Α
Behaviour during big ears	Stable flight	Α	Stable flight	Α
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in 3 s to 5 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	Standard technique	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
			1033 triair a luitilici 3 5	

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	Α			
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
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