## 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

Certification number	F	G_1322.2018	
Flight test	1	7.05.2018	
Classification	E	8	
•			
Place of lest	v	meneuve	
Claude Thurnheer	A	nselm Rauh	
Advance - Bi pro 2	A	dvance - Bi pro 2	
•		•	
120	2	25	
Α			
Smooth, easy and constant rising	А	Smooth, easy and constant rising	А
No	А	No	А
Α			
No	А	No	Α
	А		А
			A
	В	25 km/h to 30 km/h	В
A			
	0		~
not available	0	not available	0
not available	Ο	not available	0
Hot available	0		0
Increasing / greater than 65 cm	Δ	Increasing / greater than 65 cm	А
	7.	horeasing / greater than so shi	7.
-	0	not available	0
			0
0			
not available	0	not available	0
Α			
not available	0	Reducing	А
Α			
Spontaneous exit	А	Spontaneous exit	А
Α			
Immediate reduction of rate of turn	А	Immediate reduction of rate of turn	А
Spontaneous exit (g force	A	Spontaneous exit (g force decreasing, rate of turn decreasing)	A
decreasing, rate of turn decreasing)			
Less than 720°, spontaneous recovery	A	Less than 720°, spontaneous recovery	A
Less than 720°, spontaneous	A	· · · · · · · · · · · · · · · · · · ·	A
Less than 720°, spontaneous recovery A	A	recovery	A
Less than 720°, spontaneous recovery	A	· · · · · · · · · · · · · · · · · · ·	A A A
	Flight test   Classification   Representative   Place of test   Claude Thurnheer   Advance - Bi pro 2   44   55   120   A   Smooth, easy and constant rising   No   A   No   B   Yes   25 km/h to 30 km/h   A   not available   not available   not available   not available   not available   not available   A   spontaneous exit   A   Immediate reduction of rate of turn	Flight test 1   Classification E   Representative N   Place of test N   Claude Thurnheer A   Advance - Bi pro 2 A   44 55   55 55   120 2   A A   No A   A A   No A   Pies A   Yes A   Yes A   Yes A   No B   A O   not available 0   not available 0   No A   A A   Spontaneous exit A   A A   Immediate reduction of rate of turm A	Flight test 17.05.2018   Classification B   Representative None   Place of test Villeneuve   Claude Thurnheer Anselm Rauh   Advance - Bi pro 2 Advance - Bi pro 2   44 44   55 55   120 225   A Smooth, easy and constant rising No A   No A   Yes A   Yes A   Yes Yes   Stmith to 30 km/h B   D not available   Increasing / greater than 65 cm A   Intavailable<

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 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	А	Dive forward 0° to 30° / Keeping course	А
Cascade occurs	No	А	No	А
Folding lines used	No		No	
With accelerator				
Entry	not available	0	not available	0
Recovery	not available	0	not available	0
Dive forward angle on exit / Change of course	not available	0	not available	0
Cascade occurs	not available	0	not available	0
Folding lines used	Not available		Not available	
11. Exiting deep stall (parachutal stall)	Α			
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			
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	В	Λ		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
	No	A	No	A
Cascade occurs (other than collapses) Rocking back	Less than 45°	A	Less than 45°	A
14. Asymmetric collapse	Most lines tight B	A	Most lines tight	A
	В			
Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or	Less than 90° / Dive or roll angle $15^{\circ}$ to $45^{\circ}$	А	Less than 90° / Dive or roll angle 0° to 15°	А
roll angle Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	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	A	No (or only a small number of	A
	collapsed cells with a spontaneous reinflation)	~	collapsed cells with a spontaneous reinflation)	Λ
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	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		No	
Small asymmetric collapse with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	not available	0	not available	0
Re-inflation behaviour	not available	0	not available	0
Total change of course	not available	0	not available	0

Collapse on the opposite side occurs	not available	0	not available	0
Twist occurs	not available	0	not available	0
Cascade occurs	not available	0	not available	0
Folding lines used	Not available		Not available	
Large asymmetric collapse with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	not available	0	not available	0
Re-inflation behaviour	not available	0	not available	0
Total change of course	not available	0	not available	0
Collapse on the opposite side occurs	not available	0	not available	0
Twist occurs	not available	0	not available	0
Cascade occurs	not available	0	not available	0
Folding lines used	Not available		Not available	
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 symmetric control travel	A	More than 50 % of the symmetric control travel	A
16. Trim speed spin tendency	Α			
Spin occurs	No	А	No	А
17. Low speed spin tendency	Α			
Spin occurs	No	А	No	А
18. Recovery from a developed spin	В			
Spin rotation angle after release	Stops spinning in 90° to 180°	В	Stops spinning in less than 90°	А
Cascade occurs	No	А	No	А
19. B-line stall	Α			
Change of course before release	Changing course less than 45°	А	Changing course less than 45°	А
Behaviour before release	Remains stable with straight span	А	Remains stable with straight span	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
Cascade occurs	No	A	No	A
20. Big ears	A			
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°	A	Dive forward 0° to 30°	A
21. Big ears in accelerated flight	0	Α		~
Entry procedure	not available	0	not available	0
Behaviour during big ears	not available	0	not available	0
Recovery	not available	0	not available	0
Dive forward angle on exit				
0	not available	0	not available	0
Behaviour immediately after releasing the accelerator while maintaining big ears	not available	0	not available	0
22. Alternative means of directional control	<b>A</b>			
180° turn achievable in 20 s	Yes	A	Yes	A
Stall or spin occurs	No	A	No	A
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				

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