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

Manufacturer



PG 1356.2018

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

Gradient s.r.o.

Manufacturer	Gradient s.r.o.	Certification number	F	² G_1356.2018	
Address	Plzenska 221/130	Flight test	C	8.06.2018	
	150 00 Praha 5 - Motol				
Glider model	Czech Republic BiGolden4 37	Classification	Е	2	
Serial number	G50371804006		-	heo de Blic	
		Representative			
Trimmer	yes: closed	Place of test	V	/illeneuve	
Folding lines used	no				
Test pilot		Claude Thurnheer	A	Anselm Rauh	
Harness		Gin Gliders - Gingo 2 L	A	Advance - Bi pro 2	
Harness to risers distance (cm)		44	4	44	
Distance between risers (cm)		55	5	55	
Total weight in fligh		100		90	
	n (ng)				
1. Inflation/Take-off		A Orașethi area and area tarta isian			
Rising behaviour	required	Smooth, easy and constant rising	A	Smooth, easy and constant rising	A
Special take off technique	required	No A	A	No	A
2. Landing		A No	А	No	А
Special landing technique required 3. Speed in straight flight		В	~	NO	A
Trim speed more than 30 km/h		Yes	А	Yes	А
	ntrols larger than 10 km/h	Yes	A	Yes	A
Minimum speed		Less than 25 km/h	A	25 km/h to 30 km/h	В
4. Control movement		Α			
Max. weight in flight up	to 80 kg				
Symmetric control pressure / travel		not available	0	not available	0
Max. weight in flight 80 kg to 100 kg					
Symmetric control pressure / travel		not available	0	not available	0
Max. weight in flight gre	ater than 100 kg				
Symmetric control pressu	re / travel	Increasing / greater than 65 cm	А	Increasing / greater than 65 cm	А
5. Pitch stability exiting accelerated flight		0			
Dive forward angle on exit		not available	0	not available	0
Collapse occurs		not available	0	not available	0
6. Pitch stability operating controls during accelerated flight		0			
Collapse occurs		not available	0	not available	0
7. Roll stability and damping		Α			
Oscillations		Reducing	А	Reducing	А
8. Stability in gentle spirals		Α			
Tendency to return to straight flight		Spontaneous exit	A	Spontaneous exit	A
	Illy developed spiral dive	Α	_		
Initial response of glider (first 180°)		Immediate reduction of rate of turn	A	Immediate reduction of rate of turn	A
Tendency to return to stra	light 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 normal flight		Less than 720°, spontaneous recovery	A	Less than 720°, spontaneous recovery	А
10. Symmetric front coll	•	В			
Approximately 30 % cho	ord				
Entry		Rocking back less than 45°	A	Rocking back less than 45°	A
Recovery		Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A

Certification number

Test Report generated automatically by AIR TURQUOISE SA, valid without signature RE | rev 05 | 16.04.2018 // ISO | 71.8.2 // Page 1 of 3

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 30° to 60° / Keeping course	В
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	A	Λ		Λ
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
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
				A
	Most lines tight B	A	Most lines tight	A
14. Asymmetric collapse	B			
Small 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	0° to 15°	•	15° to 45°	•
Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	A
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		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	A	Yes	A			
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	A						
Spin occurs	No	А	No	А			
17. Low speed spin tendency	Α						
Spin occurs	No	А	No	А			
18. Recovery from a developed spin	A						
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 span	A	Remains stable with straight span	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			
Cascade occurs	No	A	No	A			
20. Big ears	A	A		~			
Entry procedure	Dedicated controls	А	Dedicated controls	А			
	Stable flight						
Behaviour during big ears	Spontaneous in less than 3 s	A	Stable flight	A			
Recovery		A	Spontaneous in less than 3 s Dive forward 0° to 30°	A			
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0 to 50	A			
21. Big ears in accelerated flight	0	•		0			
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	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	Α						
180° turn achievable in 20 s	Yes	Α	Yes	A			
Stall or spin occurs	No	А	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							

24. Comments of test pilot