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

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Manufacturer BGD GmbH Address Am Gewerbepark 11 9413 St-Gertraud Austria		Certification number	F	PG_1473.2019		
		Flight test		22.03.2019		
Glider model	Dual 2 38	Classification	Е	3		
Serial number	BG0704021A	Representative	-	Sruce Goldsmith		
		•				
Trimmer	yes: closed	Place of test	V	/illeneuve		
Folding lines used	no					
Test pilot		Claude Thurnheer	A	Alain Zoller		
Harness		Dudek - ZeroGravity	Advance - Bi pro 2			
Harness to risers di	stance (cm)	43		44		
Distance between risers (cm)		55		55		
Total weight in fligh		100		200		
rotar weight in high	t (kg)	100	2	.00		
1. Inflation/Take-off		Α				
Rising behaviour		Smooth, easy and constant rising	А	Smooth, easy and constant rising	A	
Special take off technique	required	No	А	No	A	
2. Landing		Α				
Special landing technique required		No	A	No	A	
3. Speed in straight flight		Α				
Trim speed more than 30 k		Yes	A		A	
Speed range using the controls larger than 10 km/h		Yes	A	Yes	A	
Minimum speed		Less than 25 km/h	A	Less than 25 km/h	A	
4. Control movement	o 90 km	Α				
Max. weight in flight up t		not available	0	not available	0	
Symmetric control pressure / travel		not available	0	not available	0	
Max. weight in flight 80 kg to 100 kg Symmetric control pressure / travel		Increasing / greater than 60 cm	А	not available	0	
-		increasing / greater than oo chi	~	not available	0	
Max. weight in flight greater than 100 kg Symmetric control pressure / travel		not available	0	Increasing / greater than 65 cm	А	
5. Pitch stability exiting a		0	Ű		7.	
Dive forward angle on exit		not available	0	not available	0	
Collapse occurs		not available	0	not available	0	
6. Pitch stability operatin	g controls during accelerated	A				
flight Collapse occurs		not available	0	No	А	
7. Roll stability and damp	oina	A	Ű		7.	
Oscillations		Reducing	А	Reducing	А	
8. Stability in gentle spira	als	A		Ŭ		
Tendency to return to straight flight		Spontaneous exit	А	Spontaneous exit	А	
9. Behaviour exiting a ful	lly developed spiral dive	Α				
Initial response of glider (fi	rst 180°)	Immediate reduction of rate of turn	А	Immediate reduction of rate of turn	А	
Tendency to return to strai	ght flight	Spontaneous exit (g force decreasing)	A	Spontaneous exit (g force decreasing)	A	
Turn angle to recover normal flight		Less than 720°, spontaneous recovery	A	Less than 720°, spontaneous recovery	A	
10. Symmetric front colla	-	В				
Approximately 30 % cho	rd					
Entry		Rocking back less than 45°	Α	Rocking back less than 45°	Α	
Recovery		Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	A	

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Dive forward angle on exit Change of course	Dive forward 30° to 60° Keeping course	В	Dive forward 30° to 60° Keeping course	В
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	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		No	
		Α	NO	A
12. High angle of attack recovery	A		On anti-	•
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Cascade occurs	No	A	No	A
13. Recovery from a developed full stall	В			_
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 30° to 60°	В
Collapse	No collapse	А	No collapse	A
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	В			
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	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				
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	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
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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	Α			
collapse				
Able to keep course	Yes	А	Yes	A
180° turn away from the collapsed side possible in 10 s	Yes	А	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	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	Α			
Spin rotation angle after release	Stops spinning in less than 90°	А	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	А	No	А
20. Big ears	В			
Entry procedure	Dedicated controls	А	Dedicated controls	А
Behaviour during big ears	Stable flight	А	Stable flight	А
Recovery	Recovery through pilot action in less than a further 3 s	В	Spontaneous in less than 3 s	А
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
21. Big ears in accelerated flight	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	A			
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				

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