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Gradient s.r.o.

Plzenska 221/130

PG\_0791.2013

02. 12. 2013

## AIR TURQUOISE SA certified by



## Flight test report: EN

Manufacturer

Address

Entry

Recovery

	Address	150 00 Praha 5 - Motol Czech Republic	Date of flight test		02. 12. 2013	
	Representative	None	Place of test		Villeneuve	
	, Glider model	Bi Golden3 42	Classification		в	
	Trimmer	yes: closed			_	
		yes. closed				
		Teet pilot	Thurphoor Cloudo		Zollor Aloin	
		•				
			Sky Paragliders - Twin		Advance - Bi Pro 2	
		Total weight in flight (kg)	120		220	
	1. Inflation/Take-off		Α			
	Rising behaviour		Smooth, easy and constant rising	А	Smooth, easy and constant rising	А
	Special take off technique r	equired	No	А	No	А
	2. Landing		Α			
	Special landing technique re	equired	No	А	No	A
	3. Speed in straight flight		В			
	Trim speed more than 30 ki	m/h	Yes	А	Yes	А
	Speed range using the cont	rols larger than 10 km/h	Yes	А	Yes	А
	Minimum speed		25 km/h to 30 km/h	В	Less than 25 km/h	А
	4. Control movement		Α	Ce of test ssification Villeneuve   B Zoller Alain   heer Claude aragliders - Twin Zoller Alain   Advance - Bi Pro 2 220   n, easy and constant rising A Smooth, easy and constant rising A   A No A Advance - Bi Pro 2 A   n, easy and constant rising A Smooth, easy and constant rising A   A No A A No A   a to 30 km/h B Less than 25 km/h A   a to 30 km/h B Less than 25 km/h A   B Less than 25 km/h A A   B Dess than 25 km/h A A   B Increasing / greater than 65 cm A A   Ilable 0 not available 0 A   Ilable 0 not available 0 A<		
	Max. weight in flight up to 8	0 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 greater than 100 kg						
Symmetric control pressure / 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 damp	ing	Α			
	Oscillations		Reducing	А	Reducing	А
	8. Stability in gentle spira	ls	Α			
	Tendency to return to straig	ht flight	Spontaneous exit	А	Spontaneous exit	А
	9. Behaviour in a steeply	banked turn	В			
	Sink rate after two turns		More than 14 m/s	В	More than 14 m/s	В
	10. Symmetric front collap	ose	Α			
	Entry		Rocking back less than 45°	А	Rocking back less than $45^{\circ}$	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	A	1 8	A
	Cascade occurs		No	А	No	А
	With accelerator					
				-		-

not available

not available

Certification number

Date of flight test

0

0

not available not available 0

0

Dive featured angle on suit / Change of eaurop		0		0
Dive forward angle on exit / Change of course	not available	0	not available	0
Cascade occurs	not available	0	not available	0
<b>11. Exiting deep stall (parachutal stall)</b> Deep stall achieved	A Yes	А	Yes	^
•	Spontaneous in less than 3 s	A		A A
Recovery	Dive forward 0° to 30°	A	Spontaneous in less than 3 s Dive forward 0° to 30°	
Dive forward angle on exit				A A
Change of course Cascade occurs	Changing course less than 45° No	A	Changing course less than 45° No	A A
	A	A	NO	A
12. High angle of attack recovery		۸	Spontancous in loss than 2 s	^
Recovery Cascade occurs	Spontaneous in less than 3 s No	A A	Spontaneous in less than 3 s No	A A
13. Recovery from a developed full stall	B	A	NO	A
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 30° to 60°	В
Collapse	No collapse		No collapse	A
Cascade occurs (other than collapses)	No	A A	No	A
Rocking back	Less than 45°	A	Less than 45°	A
Line tension	Most lines tight	A	Most lines tight	A
14. Asymmetric collapse	B	A	Most mes ugnt	~
With 50% collapse	Б			
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 0°	А
roll angle	0° to 15°	A	to 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	А	No	А
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
With 75% 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 $15^\circ$ to $45^\circ$	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	А	No	А
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
With 50% collapse and 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
With 75% collapse and 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
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	Α	Yes	A
Amount of control range between turn and stall or spin	More than 50 % of the	A	More than 50 % of the symmetric	A
	symmetric control travel		control travel	

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 $90^\circ$	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 $45^\circ$	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	Α	No	А
20. Big ears	В			
Entry procedure	Dedicated controls	Α	Dedicated controls	А
Behaviour during big ears	Stable flight	Α	Stable flight	А
Recovery	Spontaneous in 3 s to 5 s	В	Spontaneous in less than 3 s	А
Dive forward angle on exit	Dive forward 0° to 30°	Α	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. Behaviour exiting a steep spiral	Α			
Tendency to return to straight flight	Spontaneous exit	Α	Spontaneous exit	А
Turn angle to recover normal flight	Less than 720°, spontaneous recovery	A	Less than 720°, spontaneous recovery	Α
Sink rate when evaluating spiral stability [m/s]	16		24	
23. Alternative means of directional control	Α			
180° turn achievable in 20 s	Yes	А	Yes	А
Stall or spin occurs	No	Α	No	А
24. 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
25. Comments of test pilot				
Comments				