## Flight test report

Classification B

 Manufacturer
 Niviuk Gliders

 Address
 Air Games S.L, C/Doctore Cordina, 29 Bajos

 17165 La Cellera de Ter Girona
 Spain

 Representive
 None

not available

Type of glider NK1 L

Trimmer

Certification number Date of flight test Place of test PG 039.2007 14.01.2007 Villeneuve



Test Pilot Claude Thurnheer Harness Gin Genie III

Total weight in flight 100 kg

Alain Zoller Sol Paragliders - Slider L 130 kg

		Min weight		Max weight	
1. Inflation/Ta	ke-off				
	Rising behaviour	Smooth, easy and constant rising		Smooth, easy and constant rising	Α
	Special take off technique required	No	А	No	A
2. Landing	Special landing technique required	No	А	No	А
3. Speed in st	Special landing technique required	NU	A	NU	A
5. Opeeu in st	Trim speed more than 30 km/h	Yes	А	Yes	А
	Speed range using the controls larger than 10 km/h	Yes	A	Yes	A
	Minimum speed	Less than 25 km/h	А	Less than 25 km/h	А
4. Control mo					
	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	Increasing, Greater than 65 cm	А	not available	0
	Max. weight in flight greater than 100 kg	increasing, Greater than 05 cm		The available	0
	Symmetric control pressure/travel	not available	0	Increasing, Greater than 65 cm	А
5. Pitch stabil	ity exiting accelerated flight			5,	
	Dive forward angle on exit	Dive forward less than 30°	А	Dive forward less than 30°	Α
	Collapse occurs	No	А	No	А
6. Pitch stabil	ity operating controls during accelerated flight				
7 Poll stabilit	Collapse occurs y and damping	No	A	No	Α
7. Roll stabilit	Oscillations	Reducing	А	Reducing	А
8. Stability in		. Country	~		~
	Tendency to return to straight flight	Spontaneous exit	А	Spontaneous exit	А
9. Behaviour i	n a steeply banked turn				
	Sink rate after two turns	12 m/s to 14 m/s	А	More than 14 m/s	В
10. Symmetric	c front collapse				
	Entry	5	A	Rocking back less than 45°	A
	Recovery	Spontaneous in less than 3 s	A A	Spontaneous in less than 3 s	A
	Dive forward angle on exit Cascade occurs	Dive foward 0°to 30°, Keeping course No		Dive foward 0°to 30°, Keeping course No	A A
	With accelerator				^
	Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
	Recovery		А	Spontaneous in less than 3 s	А
	Dive forward angle on exit	Dive foward 0°to 30°, Keeping course	А	Dive foward 0°to 30°, Keeping course	А
	Cascade occurs	No	А	No	Α
11. Exiting de	ep stall (parachutal stall)				
	Deep stall achieved	Yes	A	Yes	A
	Recovery Dive forward angle on exit	Spontaneous in less than 3 s Dive forward 0°to 30°	A A	Spontaneous in less than 3 s Dive forward 0°to 30°	A A
	Change of course		Â	Changing course less than 45°	Â
	Cascade occurs		A	No	A
12. High angle	e of attack recovery				
	Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
	Cascade occurs	No	А	No	Α
13. Recovery	from a developed full stall			Dive formered 0015, 000	
	Dive forward angle on exit		A	Dive forward 0°to 30°	A
	Collapse Cascade occurs (other than collapse)	No collapse No	A A	No collapse No	A A
	Rocking back	Less than 45°	A	Less than 45°	A
	Line tension	Most line tight	A	Most line tight	A
14. Asymmetr	ic collapse				
	With 50% collapse-Maximum dive forward or roll angle				
	Change of course until re-inflation	Less than 90°, Dive or roll angle 0° to 15°	А	Less than 90°, Dive or roll angle 0° to 15°	А
	Re-inflation behaviour	•	Α	Spontaneous re-inflation	Α
	Total change of course		A	Less than 360°	A
	Collapse on the opposite side occurs	••		No	A
	I wist occurs Cascade occurs	No No	A A	No No	A
	With 75% collapse-Maximum dive forward or roll angle		7		~
	Change of course until re-inflation	Less than 90°, Dive or roll angle 15° to 45°	А	90° to 180°, Dive or roll angle 0° to 15°	А
	Re-inflation behaviour	Spontaneous re-inflation		Spontaneous re-inflation	A
	Total change of course	Less than 360°		Less than 360°	Α
	Collapse on the opposite side occurs			No	А
	Twist occurs	No		No	A
	Cascade occurs	No pr m// angle	A	No	A
	With 50% collapse and accelerator-Maximum dive forward of Change of course until re-inflation		^	Less than 90°, Dive or roll angle 15° to 45°	٨
	Change of course until re-inflation Re-inflation behaviour	Less than 90°, Dive or roll angle 0° to 15° Spontaneous re-inflation		Spontaneous re-inflation	A A
	Total change of course	Less than 360°		Less than 360°	A
	Collapse on the opposite side occurs	No		No	A

	Twist occurs	No	А	No	А
	Cascade occurs	No	A	No	A
			A	NO	A
	With 75% collapse and accelerator-Maximum dive forward o	Less than 90°, Dive or roll angle 15° to 45°	^	90° to 180°, Dive or roll angle 15° to 45°	в
	Change of course until re-inflation		A		
	Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	A
	Total change of course	Less than 360°	Α	Less than 360°	Α
	Collapse on the opposite side occurs	No	А	No	А
	Twist occurs	No	А	No	А
	Cascade occurs	No	Α	No	Α
15. Direction	al control with a maintained asymmetric collapse				
	Able to keep course	Yes	А	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 spee	ed spin tendency				
•	Spin occurs	No	А	No	А
17. Low spee	ed spin tendency				
	Spin occurs	No	А	No	А
18. Recovery	r from a developed spin				
	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 sta		145	~		~
15. D-Inte Sta	Change of course before release	Change of course less than 45°	А	Change of course less than 45°	А
	Behaviour before release		A		
		Remains stable with straight span		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°	Α	Dive forward 0° to 30°	A
	Cascade occurs	No	А	No	A
20. Big ears					
	Entry procedure	Dedicated controls	Α	Dedicated controls	A
	Behaviour during big ears	Stable flight	Α	Stable flight	Α
	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°	Α	Dive forward 0° to 30°	Α
21. Big ears i	in accelerated flight				
	Entry procedure	Dedicated controls	А	Dedicated controls	Α
	Behaviour during big ears	Stable flight	Α	Stable flight	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 0° to 30°	Α
	Behaviour immediately after releasing the accelerator while	Stable flight	Α	Stable flight	Α
22. Behaviou	r exiting a steep spiral				
	Tendency to return to straight flight	Spontaneous exit	А	Spontaneous exit	А
	Turn angle to recover normal flight	Less than 720°, spontaneous recovery	А	Less than 720°, spontaneous recovery	А
	Sink rate when evaluating spiral stability [m/s]	16 m/s		14.5 m/s	
23. Alternativ	ve means of directional control				
	180° turn achievable in 20 s	Yes	А	Yes	А
	Stall or spin occurs	No	A	No	A
24 Any other	r flight procedure and/or configuration described in the us		~		~
Ally other	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
Comments o			0		0
Comments o	•	20		20	
	Comments	no		no	



Air Turquoise Rue de la Poterlaz 6 Case postale 10 CH- 1844 Villeneuve Switzerland mobile: +41 79 202 52 30 Tel. no: +41 21 965 65 65 fax : +41 219 65 65 66 email: info@airturquoise.ch homepage: www.cen.li