Flight test report

 Manufacturer
 Niviuk Gliders

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

 17165 La Cellera de Ter Girona
 Spain

 Representive
 None

 Type of glider
 Peak 27

not available

Trimmer

Certification number Date of flight test Place of test

Classification D

Test Pilot Claude Thurnheer Harness Gin Genie III M 44cm

و با بد ا

Total weight in flight 90 kg

Mir

Alain Zoller Sol Paragliders - Slider L 110 kg

PG 102.2007

14/09/2007 Villeneuve

Max woid

		Min weight		Max weight	
1. Inflation/Ta					
	Rising behaviour	Smooth, easy and constant rising	A	Smooth, easy and constant rising	A
	Special take off technique required	No	A	No	A
2. Landing					
	Special landing technique required	No	A	No	A
3. Speed in st					
	Trim speed more than 30 km/h	Yes	A	Yes	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 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, 35 cm to 45 cm	D	not available	0
	Max. weight in flight greater than 100 kg		_		_
	Symmetric control pressure/travel	not available	0	Increasing, 50 cm to 65 cm	С
b. Pitch stabi	lity exiting accelerated flight				
	Dive forward angle on exit	Dive forward less than 30°	A	Dive forward less than 30°	A
	Collapse occurs	No	A	No	A
5. Pitch stabi	lity operating controls during accelerated flight				
Dell station	Collapse occurs	No	A	No	A
. Roli stabili	ty and damping	Paduaina	٨	Reducing	
Ctobility !!	Oscillations	Reducing	A	Reducing	A
stability in	gentle spirals	Spontonogua avit	٨	Spontonogua avit	^
Bahavia	Tendency to return to straight flight in a steeply banked turn	Spontaneous exit	A	Spontaneous exit	A
Benaviour		Mara than 11 m/s	В	More than 14 m/s	Б
0. Cumum atui	Sink rate after two turns	More than 14 m/s	в	More than 14 m/s	В
io. Symmetri	c front collapse Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
	•	Spontaneous in less than 3 s	Â	Spontaneous in less than 3 s	Â
	Recovery Dive forward angle on exit	Dive foward 0°to 30°, Keeping course	A	Dive foward 30°to 60°, Keeping course	B
	Cascade occurs	No	A	No	A
	With accelerator	NU	A	NO	A
		Rocking back greater than 45°	С	Decking back loss than 45%	А
	Entry	5 5	A	Rocking back less than 45°	B
	Recovery Dive forward angle on exit	Spontaneous in less than 3 s	A	Spontaneous in 3 s to 5 s Dive foward 30°to 60°, Keeping course	B
	Cascade occurs	Dive foward 0°to 30°, Keeping course No	A	No	A
1 Exiting do	eep stall (parachutal stall)	NU	A	NO	A
I. Exiting de	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	A	No	A
12. High angl	e of attack recovery				
jj-	Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
	Cascade occurs	No	A	No	A
13. Recoverv	from a developed full stall				
,,,,,	Dive forward angle on exit	Dive forward 0°to 30°	А	Dive forward 30°to 60°	В
	Collapse	No collapse	A	No collapse	Ā
	Cascade occurs (other than collapse)	No	A	No	A
	Rocking back	Less than 45°	A	Less than 45°	A
	Line tension	Most line tight	A	Most line tight	A
4. Asymmet					
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	With 50% collapse-Maximum dive forward or roll angle				
	Change of course until re-inflation	Less than 90°, Dive or roll angle 15° to 45°	А	Less than 90°, Dive or roll angle 0° to 15°	А
	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	A	No	Â
	Twist occurs	No	A	No	A
	Cascade occurs	No	A		A
	With 75% collapse-Maximum dive forward or roll angle		~		
	Change of course until re-inflation	Less than 90°, Dive or roll angle 60° to 90°	С	Less than 90°, Dive or roll angle 45° to 60°	С
	Re-inflation behaviour	Spontaneous re-inflation	Ă	Spontaneous re-inflation	Ă
	Total change of course	Less than 360°	A	Less than 360°	A
	Collapse on the opposite side occurs	No	A	No	Â
	Twist occurs	No	A	No	Â
	Cascade occurs	No	Â	No	Â
	With 50% collapse and accelerator-Maximum dive forward		~		
	Change of course until re-inflation	Less than 90°, Dive or roll angle 15° to 45°	А	90° to 180°, Dive or roll angle 15° to 45°	В
		2000 than 50, Dive of foil angle 13 10 45			
		Spontaneous re-inflation	Δ	Spontaneous re-inflation	Δ
	Re-inflation behaviour	Spontaneous re-inflation	A A	Spontaneous re-inflation	A A
		Spontaneous re-inflation Less than 360° No	А	Spontaneous re-inflation Less than 360° No	A A A

	Twist occurs	No	Α	No	Α
	Cascade occurs	No	А	No	А
	With 75% collapse and accelerator-Maximum dive forward of	r roll angle			
	Change of course until re-inflation	Less than 90°, Dive or roll angle 60° to 90°	С	180° to 360°, Dive or roll angle 60° to 90°	D
	Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	А
	Total change of course	Less than 360°	A	Less than 360°	A
	Collapse on the opposite side occurs	No	A	Yes, no turn reversal	ĉ
	Twist occurs	No		No	A
			A		
	Cascade occurs	No	Α	No	Α
15. Directiona	al control with a maintained asymmetric collapse	N .		N .	
	Able to keep course	Yes	Α	Yes	A
	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	А	More than 50 % of the symmetric control travel	А
16. Trim spee	d spin tendency				
	Spin occurs	No	Α	No	Α
17. Low speed	d spin tendency				
	Spin occurs	No	Α	No	Α
18. Recovery	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	А	No	А
19. B-line stal	1				
	Change of course before release	Change of course less than 45°	А	Change of 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		No	
00 D'a	Cascade occurs	NO	А	NO	A
20. Big ears		- · · · · · ·			
	Entry procedure	Standard technique	A	Standard technique	A
	Behaviour during big ears	Stable flight	Α	Stable flight	Α
	Recovery	Recovery through pilot action in less than a	В	Recovery through pilot action in less than a	В
		further 3 s		further 3 s	
	Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
21. Big ears in	n accelerated flight				
	Entry procedure	Standard technique	А	Standard technique	Α
	Behaviour during big ears	Stable flight	Α	Stable flight	Α
	Recovery	Spontaneous in 3 s to 5 s	А	Recovery through pilot action in less than a	В
				further 3 s	
	Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
	Behaviour immediately after releasing the accelerator while	Stable flight	A	Stable flight	A
22 Rehaviour	r exiting a steep spiral	Clabic ingiti		o cabio ingrit	
EE. Benavioui	Tendency to return to straight flight	Spontaneous exit	А	Spontaneous exit	А
	Turn angle to recover normal flight	Less than 720°, spontaneous recovery	A	Less than 720°, spontaneous recovery	A
	Sink rate when evaluating spiral stability [m/s]	19 m/s	^	25 m/s	^
		1911/5		25 11/5	
25. Alternative	e means of directional control	Vee	•	Vee	
	180° turn achievable in 20 s	Yes	A	Yes	A
	Stall or spin occurs	No	А	No	A
24. Any other	flight procedure and/or configuration described in the us				
	Procedure works as described	not available	0		0
	Procedure suitable for novice pilots	not available	0		0
	Cascade occurs	not available	0	not available	0
Comments of	test pilot				
	Comments	no		no	



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