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 Hook L
Trimmer not available

 Certification number
 PG 040.2007

 Date of flight test
 14.01.2007

 Place of test
 Villeneuve



Classification B

Test Pilot Claude Thurnheer Harness Gin Genie III

Total weight in flight 100 kg

Alain Zoller

Sol Paragliders - Slider L

130 kg

1 Inflation/T		Min weight		Max weight	
1. Inflation/Ta	Rising behaviour	Smooth, easy and constant rising	Α	Smooth, easy and constant rising	
	Special take off technique required	No	A	No	
Landing	Special landing technique required	No	Α	No	
Speed in s	traight flight	140		140	
•	Trim speed more than 30 km/h	Yes	Α	Yes	
	Speed range using the controls larger than 10 km/h	Yes	Α	Yes	
	Minimum speed	Less than 25 km/h	Α	Less than 25 km/h	
. Control mo					
	Max. weight in flight up to 80 kg Symmetric control pressure/travel	not available	0	not available	
	Max. weight in flight 80 kg to 100 kg	not available	Ŭ	not available	
	Symmetric control pressure/travel	Increasing, Greater than 65 cm	Α	not available	
	Max. weight in flight greater than 100 kg				
	Symmetric control pressure/travel	not available	0	Increasing, Greater than 65 cm	
. Pitch stabi	lity exiting accelerated flight Dive forward angle on exit	Dive forward less than 30°	Α	Dive forward less than 30°	
	Collapse occurs	No	A	No	
. Pitch stabi	lity operating controls during accelerated flight			110	
	Collapse occurs	No	Α	No	
. Roll stabili	ty and damping	2			
Ctab ""to t	Oscillations	Reducing	Α	Reducing	
. Stability in	gentle spirals Tendency to return to straight flight	Spontaneous exit	Α	Spontaneous exit	
. Behaviour	in a steeply banked turn	Oponianeous exit	А	Oponialieous exit	
	Sink rate after two turns	12 m/s to 14 m/s	Α	12 m/s to 14 m/s	
0. Symmetri	c front collapse				
	Entry	Rocking back less than 45°	Α	Rocking back less than 45°	
	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	
	Dive forward angle on exit Cascade occurs	Dive foward 0°to 30°, Keeping course No	A A	Dive foward 0°to 30°, Keeping course No	
	With accelerator	INO	А	INO	
	Entry	Rocking back less than 45°	Α	Rocking back less than 45°	
	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	
	Dive forward angle on exit	Dive foward 0°to 30°, Keeping course	Α	Dive foward 0°to 30°, Keeping course	
	Cascade occurs	No	Α	No	
1. Exiting de	ep stall (parachutal stall) Deep stall achieved	Yes	Α	Yes	
	Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	
	Dive forward angle on exit	Dive forward 0°to 30°	Α	Dive forward 0°to 30°	
	Change of course	Changing course less than 45°	Α	Changing course less than 45°	
	Cascade occurs	No	Α	No	
2. High angl	e of attack recovery				
	Recovery Cascade occurs	Spontaneous in less than 3 s No	A A	Spontaneous in less than 3 s No	
3. Recovery	from a developed full stall	INO		INO	
	Dive forward angle on exit	Dive forward 0°to 30°	Α	Dive forward 30°to 60°	
	Collapse	No collapse	Α	No collapse	
	Cascade occurs (other than collapse)	No	Α	No	
	Rocking back	Less than 45°	A	Less than 45°	
Acummot	Line tension ric collapse	Most line tight	Α	Most line tight	
. Asymmet	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°	Α	Less than 90°, Dive or roll angle 0° to 15°	
	Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	
	Total change of course	Less than 360°	Α	Less than 360°	
	Collapse on the opposite side occurs	No	Α	No	
	Twist occurs Cascade occurs	No No	A	No No	
	With 75% collapse-Maximum dive forward or roll angle	No	Α	No	
	Change of course until re-inflation	Less than 90°, Dive or roll angle 15° to 45°	Α	90° to 180°, Dive or roll angle 0° to 15°	
	Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	
	Total change of course	Less than 360°	Α	Less than 360°	
	Collapse on the opposite side occurs	No	Α	No	
	Twist occurs	No	A	No No	
	Cascade occurs With 50% collapse and accelerator-Maximum dive forward or	No r roll angle	Α	No	
	With 50% collapse and accelerator-maximum dive forward of Change of course until re-inflation	roll angle Less than 90°, Dive or roll angle 0° to 15°	Α	Less than 90°, Dive or roll angle 15° to 45°	
	Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	
	Total change of course	Less than 360°	A	Less than 360°	

	Twist occurs	No		No	Α
	Cascade occurs	No	Α	No	Α
	With 75% collapse and accelerator-Maximum dive forward o				
	Change of course until re-inflation	Less than 90°, Dive or roll angle 15° to 45°	Α	90° to 180°, Dive or roll angle 15° to 45°	В
	Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
	Total change of course	Less than 360°	Α	Less than 360°	Α
	Collapse on the opposite side occurs	No	Α	No	Α
	Twist occurs	No	Α	No	Α
	Cascade occurs	No	Α	No	Α
15. Directiona	al control with a maintained asymmetric collapse				
	Able to keep course	Yes	Α	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	Α	No	Α
17. Low spee	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°	Α	Stops spinning in less than 90°	Α
	Cascade occurs	No	Α	No	Α
19. B-line sta	ll .				
	Change of course before release	Change of course less than 45°	Α	Change of course less than 45°	Α
	Behaviour before release	Remains stable with straight span	Α	Remains stable with straight span	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
	Cascade occurs	No	Α	No	Α
20. Big ears					
ŭ	Entry procedure	Dedicated controls	Α	Standard technique	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
21. Big ears i	n accelerated flight				
ŭ	Entry procedure	Dedicated controls	Α	Standard technique	Α
	Behaviour during big ears	Stable flight	Α	Stable flight	Α
	Recovery	Recovery through pilot action in less than a futher		Spontaneous in 3 s to 5 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	Α	Spontaneous exit	Α
	Turn angle to recover normal flight	Less than 720°, spontaneous recovery	Α	Less than 720°, spontaneous recovery	Α
	Sink rate when evaluating spiral stability [m/s]	19 m/s		17 m/s	
23. Alternativ	re means of directional control				
	180° turn achievable in 20 s	Yes	Α	Yes	Α
	Stall or spin occurs	No	Α	No	Α
24. Any other	r flight procedure and/or configuration described in the us				
,	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 of			J		- 3
23	Comments	no		no	



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