Flight test report

 Manufacturer
 Trekking

 Address
 B.P. 41

 13410 Lambesc
 France

 Representive
 None

 Type of glider
 Vanquish L

 Trimmer
 not available

Certification number Date of flight test Place of test PG 053.2007 31.01.2007 Villeneuve



Classification C

Test Pilot Claude Thurnheer Harness Gin Genie III M Total weight in flight 90 kg Alain Zoller Sol Paragliders - Slider L 110 kg

		Min weight		Max weight	
1. Inflation/Tak	ke-off				
	Rising behaviour	Smooth, easy and constant rising	А	Smooth, easy and constant rising	А
	Special take off technique required	No	Α	No	A
2. Landing	Consider to a basis of a service of	Na	^	Na	•
3. Speed in str	Special landing technique required	No	Α	No	A
	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	A	Less than 25 km/h	A
4. Control mov					
	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, 50 cm to 65 cm	С	not available	0
	Max. weight in flight greater than 100 kg Symmetric control pressure/travel	net evellekte	0	la seconda a 50 cm to 65 cm	~
	ity exiting accelerated flight	not available	0	Increasing, 50 cm to 65 cm	С
	Dive forward angle on exit	Dive forward less than 30°	А	not available	0
	Collapse occurs	No	A	No	A
	ity operating controls during accelerated flight				
		No	А	No	А
7. Roll stability	y and damping				
	Oscillations	Reducing	А	Reducing	А
8. Stability in g					
	Tendency to return to straight flight	Spontaneous exit	А	Spontaneous exit	А
	n a steeply banked turn	More than 14 m/s	в	More than 14 m/s	в
	Sink rate after two turns	More than 14 m/s	в	More than 14 m/s	в
	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	A
	Dive forward angle on exit	Dive foward 0°to 30°, Keeping course	A	Dive foward 0°to 30°, Keeping course	A
	Cascade occurs	No	A	No	A
	With accelerator				
	Entry	Rocking back less than 45°	А	Rocking back less than 45°	Α
	Recovery	Spontaneous in 3 s to 5 s	В	Spontaneous in less than 3 s	Α
	Dive forward angle on exit	Dive foward 0°to 30°, Keeping course	А	Dive foward 0°to 30°, Keeping course	Α
	Cascade occurs	No	А	No	Α
	ep stall (parachutal stall)				
	Deep stall achieved	Yes	A	Yes	A
	Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
	Dive forward angle on exit Change of course	Dive forward 0°to 30°	A A	Dive forward 0°to 30°	A A
	Cascade occurs	Changing course less than 45° No	A	Changing course less than 45° No	A
	of attack recovery		~		~
	Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
	Cascade occurs	No	А	No	А
13. Recovery f	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	А	No collapse	А
	Cascade occurs (other than collapse)	No	А	No	А
	Rocking back	Less than 45°	Α	Less than 45°	Α
	Line tension	Most line tight	A	Most line tight	A
14. Asymmetri	ic collapse 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 15° to 45°	А
	Re-inflation behaviour	Inflates in less than 3 s from start of pilot action	ĉ	Inflates in less than 3 s from start of pilot action	ĉ
		milates in loss than 5 5 nom start of pilot dotton	Ŭ		Ŭ
	Total change of course	Less than 360°	А	Less than 360°	А
	Collapse on the opposite side occurs	No	A	No	A
	Twist occurs	No	А	No	А
	Cascade occurs	No	А	No	А
	With 75% collapse-Maximum dive forward or roll angle				
			Α	90° to 180°, Dive or roll angle 15° to 45°	В
	Change of course until re-inflation	Less than 90°, Dive or roll angle 15° to 45°			
	Change of course until re-inflation Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	
	Change of course until re-inflation Re-inflation behaviour Total change of course	Spontaneous re-inflation Less than 360°	A A	Spontaneous re-inflation Less than 360°	Α
	Change of course until re-inflation Re-inflation behaviour Total change of course Collapse on the opposite side occurs	Spontaneous re-inflation Less than 360° No	A A A	Spontaneous re-inflation Less than 360° No	A A
	Change of course until re-inflation Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs	Spontaneous re-inflation Less than 360° No No	A A A	Spontaneous re-inflation Less than 360° No No	A A A
	Change of course until re-inflation Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs	Spontaneous re-inflation Less than 360° No No	A A A	Spontaneous re-inflation Less than 360° No	A A A A A
	Change of course until re-inflation Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs With 50% collapse and accelerator-Maximum dive forward or	Spontaneous re-inflation Less than 360° No No roll angle	A A A A A	Spontaneous re-inflation Less than 360° No No No	A A A
	Change of course until re-inflation Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs	Spontaneous re-inflation Less than 360° No No	A A A	Spontaneous re-inflation Less than 360° No No	A A A

	Total change of course	Less than 360°	А	Less than 360°	А
	Collapse on the opposite side occurs	No	A	No	A
	Twist occurs	No	A	No	A
	Cascade occurs	No	A	No	A
	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°	А	180° to 360°, Dive or roll angle 15° to 45°	С
	Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	A
	Total change of course		A	Less than 360°	A
	0				
	Collapse on the opposite side occurs	No	A	No No	A
	Twist occurs	No	A		A
	Cascade occurs	No	А	No	А
15. Direction	al control with a maintained asymmetric collapse	N .			
	Able to keep course	Yes	Α	Yes	Α
	180° turn away from the collapsed side possible in 10 s		Α	Yes	Α
	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 spe	ed spin tendency				
	Spin occurs	No	А	No	А
17. Low spee	ed spin tendency				
	Spin occurs	No	А	No	А
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 sta	II				
	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	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	A	No	A
20. Big ears					
	Entry procedure	Dedicated controls	А	Standard technique	А
	Behaviour during big ears	Stable flight	A	Stable flight	A
	Recovery	Recovery through pilot action in less than a futher		Recovery through pilot action in less than a futher	
	Recovery	3 s	U	3 s	U
	Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
21 Big core	in accelerated flight	Dive forward 0 to 50	A	Dive forward 0 to 30	A
ZI. Dig ears	Entry procedure	Dedicated controls	^	Standard technique	А
			A	Standard technique	
	Behaviour during big ears	Stable flight	A	Stable flight	A
	Recovery	Recovery through pilot action in less than a futher	в	Recovery through pilot action in less than a futher	в
		3 s		3 s	
	Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
	Behaviour immediately after releasing the accelerator while	Stable flight	А	Stable flight	A
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]	18 m/s		20 m/s	
23. Alternativ	e means of directional control				
	180° turn achievable in 20 s	Yes	А	Yes	А
	Stall or spin occurs	No	А	No	А
24. Any othe	r flight procedure and/or configuration described in the us	er's manual			
	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					
	Comments	no		no	



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