Flight test report

Manufacturer Team 5

Address Airsport 2000 GmbH

6653 Bach 95 Austria

Representive Dani Loritz Type of glider Green L not available Trimmer

PG 087.2007 Certification number Date of flight test 21/06/2007 Villeneuve Place of test



Classification A

Test Pilot Chris Geist Harness SOL Slider

Total weight in flight 100 kg

Alain Zoller

Sol Paragliders - Slider L 130 kg

		Min weight	Max weight
1. Inflation/Ta		.	
	Rising behaviour Special take off technique required	Smooth, easy and constant rising No A	
2. Landing	On a sight long time to short our and so d	Ma	
3. Speed in st	Special landing technique required	No A	A No A
o. opoca o.	Trim speed more than 30 km/h	Yes A	A Yes A
	Speed range using the controls larger than 10 km/h	Yes A	A Yes A
	Minimum speed	Less than 25 km/h	Less than 25 km/h A
4. Control mo	vement 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 60 cm	not available 0
	Max. weight in flight greater than 100 kg Symmetric control pressure/travel	not available	0 Increasing, Greater than 65 cm A
5. Pitch stabi	lity exiting accelerated flight	not available	o increasing, Greater than 65 cm
	Dive forward angle on exit	Dive forward less than 30°	Dive forward less than 30° A
	Collapse occurs	No A	A No A
i. Pitch stabi	lity operating controls during accelerated flight	Nie	A No.
7. Roll stabili	Collapse occurs ty and damping	No A	A No A
	Oscillations	Reducing	A Reducing A
3. Stability in	gentle spirals		
. Bohoviour	Tendency to return to straight flight in a steeply banked turn	Spontaneous exit	A Spontaneous exit A
. Dellavioui	Sink rate after two turns	12 m/s to 14 m/s	A 12 m/s to 14 m/s A
IO. Symmetri	c front collapse		
	Entry	Rocking back less than 45°	3
	Recovery Dive forward angle on exit	Spontaneous in less than 3 s Dive foward 0°to 30°, Keeping course	
	Cascade occurs	Dive foward 0°to 30°, Keeping course No	
	With accelerator		
	Entry	Rocking back less than 45°	
	Recovery	Spontaneous in less than 3 s	The state of the s
	Dive forward angle on exit Cascade occurs	Dive foward 0°to 30°, Keeping course No A	
1. Exiting de	ep stall (parachutal stall)		
	Deep stall achieved	Yes	
	Recovery	Spontaneous in less than 3 s Dive forward 0°to 30°	
	Dive forward angle on exit Change of course	Changing course less than 45°	
	Cascade occurs	No A	
12. High angl	e of attack recovery		
	Recovery Cascade occurs	Spontaneous in less than 3 s No	
3. Recovery	from a developed full stall	NO F	A No A
o. necovery	Dive forward angle on exit	Dive forward 0°to 30°	A Dive forward 0°to 30° A
	Collapse	No collapse	
	Cascade occurs (other than collapse)	No A	
	Rocking back Line tension	Less than 45° Most line tight	
4. Asymmet		, west inte tight	Noot line ugitt
	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°	
	Re-inflation behaviour Total change of course	Spontaneous re-inflation Less than 360° A	•
	Collapse on the opposite side occurs	No A	
	Twist occurs	No A	A No A
	Cascade occurs	No A	A No A
	With 75% collapse-Maximum dive forward or roll angle Change of course until re-inflation	Less than 90°, Dive or roll angle 0° to 15°	A Less than 90°, Dive or roll angle 0° to 15° A
	Re-inflation behaviour	Spontaneous re-inflation	
	Total change of course	Less than 360°	Less than 360° A
	Collapse on the opposite side occurs	No	
	Twist occurs Cascade occurs	No A	
	With 50% collapse and accelerator-Maximum dive forward or		A No A
	Change of course until re-inflation	Less than 90°, Dive or roll angle 15° to 45°	Less than 90°, Dive or roll angle 0° to 15° A
	Re-inflation behaviour	Spontaneous re-inflation	A Spontaneous re-inflation A
	Total change of course	Less than 360°	
	Collapse on the opposite side occurs	No A	A No A

Twist occurs Cascade occurs No With 75% collapse and accelerator-Maximum dive forward or roll angle Change of course until re-inflation Re-inflation behaviour Collapse on the opposite side occurs No No Collapse on the opposite side occurs No No Collapse on the opposite side occurs No		Total	No.		N-	^
With 75% collapse and accelerator-Maximum dive forward or roll angle 15° to 45° A Re-inflation behaviour Spontaneous re-inflation A Re-inflation behaviour Less than 360° A No A Robot A		Twist occurs	No			A
Change of course until re-inflation Re-inflation behaviour Spontaneous re-inflation A Re-inflation behaviour Less than 960" No A Less than 960" A Less than 360" A No A N				А	NO	А
Re-inflation behaviour Spontaneous re-inflation A Less than 360" A No A N				^	Lace there 00% Diverse rell consts 0% to 45%	^
Total change of course Collapse on the opposite side occurs No Collapse on the opposite side occurs No No A Twist occurs No No A A No A No A No A No A No A No			•			
Collapse on the opposite side occurs No A Twist occurs No Cascade occurs No A						
Twist occurs Cascade occurs No Cascade occurs No A Cascade occurs No A No		- Carlotte				
Cascade occurs Able to keep course Able to kee						
15. Directional control with a maintained asymmetric collapse 180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin Amount of control range between turn and stall or spin Spin occurs No						
Able to keep course			No	Α	No	Α
180° turn away from the collapsed side possible in 10 s	15. Direction					
Amount of control range between turn and stall or spin More than 50 % of the symmetric control travel A Spin occurs Spin occurs No 17. Low speed spin tendency Spin occurs No 18. Recovery from a developed spin Spin rotation angle after release Spin tendency Spin rotation angle after release Spin tendency Spin rotation angle after release Spin rotation spin rotation rotation and rotation rotation angle spin rotation						
16. Trim speed spin tendency Spin occurs No						
Spin occurs Spin occurs No No No A No A No A No A No A No A No			More than 50 % of the symmetric control travel	Α	More than 50 % of the symmetric control travel	Α
17. Low speed spin tendency Spin occurs Spin cocurs Spin occurs Spin cocurs No Spin cocurs No A Stops spinning in less than 90° A No A No A Stops spinning in less than 90° A No A No A Stops spinning in less than 90° A No A No A Stops spinning in less than 90° A No A No A Stops spinning in less than 90° A No A No A Stops spinning in less than 90° A No A A No Change of course less than 45° A Remains stable with straight span A Removery Spontaneous in less than 3 s A 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 No A 20. Big ears Entry procedure Behaviour during big ears Stable flight Recovery Spontaneous in less than 3 s A Spontaneous	16. Trim spe	•				
Spin rotation angle after release Stops spinning in less than 90° A No A No A Stops spinning in less than 90° A No A No A No A No A Stops spinning in less than 90° A No A N			No	Α	No	Α
18. Recovery from a developed spin Spin rotation angle after release Cascade occurs No No A	17. Low spec					
Spin rotation angle after release Cascade occurs No No A			No	Α	No	Α
Cascade occurs Change of course before release Remains stable with straight span Recovery Spontaneous in less than 3 s A Remains stable with straight span Recovery Spontaneous in less than 3 s A No 20. Big ears Entry procedure Behaviour during big ears Stable flight Recovery Spontaneous in less than 3 s A	Recovery					
19. B-line stall Change of course before release						
Change of course before release Behaviour before release Remains stable with straight span Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward or to 30° A Dive forw		Cascade occurs	No	Α	No	Α
Behaviour before release Remains stable with straight span Recovery Spontaneous in less than 3 s A Dive forward angle on exit Dive forward 0° to 30° A No A N	19. B-line sta	all .				
Recovery Dive forward angle on exit Dive forward 0° to 30° A No A N		Change of course before release	Change of course less than 45°	Α	Change of course less than 45°	Α
Dive forward angle on exit		Behaviour before release	Remains stable with straight span	Α	Remains stable with straight span	Α
Cascade occurs No A No A		Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Entry procedure Behaviour during big ears Stable flight A A Stable flight A A Stable flight A Stable flight A A Stable		Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Entry procedure Behaviour during big ears Stable flight A A Stab		Cascade occurs	No	Α	No	Α
Behaviour during big ears Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward 0° to 30° A Dive forward 0° to	20. Big ears					
Recovery Dive forward angle on exit Dive forward 0° to 30° Dive forward angle on exit Dive forward 0° to 30° Dive forward angle on exit Dive forward 0° to 30° Dive forward do° to 30° Dive forward do° to 30° Dive forward do° to 30° Dive forward angle on exit Dive forward 0° to 30° Dive forward 0° t	_	Entry procedure	Dedicated controls	Α	Dedicated controls	Α
Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure Behaviour during big ears Stable flight Recovery Dive forward 0° to 30° Stable flight Recovery Dive forward angle on exit Behaviour immediately after releasing the accelerator while Stable flight Spontaneous in less than 3 s Behaviour immediately after releasing the accelerator while Stable flight A St		Behaviour during big ears	Stable flight	Α	Stable flight	Α
21. Big ears in accelerated flight Entry procedure Entry procedure Behaviour during big ears Stable flight A		Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Entry procedure Behaviour during big ears Stable flight A Stab		Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Behaviour during big ears Recovery Spontaneous in less than 3 s A Dive forward angle on exit Behaviour immediately after releasing the accelerator while 22. Behaviour exiting a steep spiral Tendency to return to straight flight Less than 720°, spontaneous exit A Turn angle to recover normal flight Less than 720°, spontaneous recovery Sink rate when evaluating spiral stability [m/s] 16 m/s 23. Alternative means of directional control 180° turn achievable in 20 s Stall or spin occurs No A Yes A Yes A No A Yes A No A Yes A No Cascade occurs not available O not available O not available O not available O cascade occurs O not available O not available O not available O not available O comments of test pilot	21. Big ears	in accelerated flight				
Behaviour during big ears Recovery Spontaneous in less than 3 s Dive forward angle on exit Behaviour immediately after releasing the accelerator while Behaviour remediately after releasing the accelerator while Stable flight A Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward 0° to 30° A Dive forward 0° to 30° A Stable flight A Stable flig	ŭ	Entry procedure	Dedicated controls	Α	Dedicated controls	Α
Recovery Spontaneous in less than 3 s Dive forward angle on exit Dive forward 0° to 30° A Dive f			Stable flight	Α	Stable flight	Α
Dive forward angle on exit Behaviour immediately after releasing the accelerator while 22. Behaviour exiting a steep spiral Tendency to return to straight flight Spontaneous exit A Turn angle to recover normal flight Less than 720°, spontaneous recovery Sink rate when evaluating spiral stability [m/s] 16 m/s 23. Alternative means of directional control 180° turn achievable in 20 s Stall or spin occurs No A Yes A No						
Behaviour immediately after releasing the accelerator while 22. Behaviour exiting a steep spiral Tendency to return to straight flight Spontaneous exit A Less than 720°, spontaneous recovery Sink rate when evaluating spiral stability [m/s] 16 m/s 23. Alternative means of directional control 180° turn achievable in 20 s Stall or spin occurs No A Ves A No A Ves A No A A Ves A No A A Ves A No A C A C A No A C C C C C C C C C C C C C C C C C C			•			
22. Behaviour exiting a steep spiral Tendency to return to straight flight Spontaneous exit A Turn angle to recover normal flight Sink rate when evaluating spiral stability [m/s] 16 m/s 23. Alternative means of directional control 180° turn achievable in 20 s Stall or spin occurs No A 24. Any other flight procedure and/or configuration described in the user's manual Procedure works as described Procedure suitable for novice pilots not available Cascade occurs One available On tavailable On tot available			Stable flight	Α		Α
Tendency to return to straight flight Turn angle to recover normal flight Less than 720°, spontaneous recovery Sink rate when evaluating spiral stability [m/s] 23. Alternative means of directional control 180° turn achievable in 20 s Stall or spin occurs No A 24. Any other flight procedure and/or configuration described in the user's manual Procedure works as described not available Occurs not available Occurs On available	22. Behaviou		J.,		J	
Turn angle to recover normal flight Sink rate when evaluating spiral stability [m/s] 16 m/s 23. Alternative means of directional control 180° turn achievable in 20 s Yes A Stall or spin occurs No A Stall or spin occurs No A No A No A No A A 24. Any other flight procedure and/or configuration described in the user's manual Procedure works as described not available 0 not availa			Spontaneous exit	Α	Spontaneous exit	Α
Sink rate when evaluating spiral stability [m/s] 16 m/s 23. Alternative means of directional control 180° turn achievable in 20 s Yes A Stall or spin occurs No A 24. Any other flight procedure and/or configuration described in the user's manual Procedure works as described not available 0 not avail			·			
23. Alternative means of directional control 180° turn achievable in 20 s Stall or spin occurs No A 24. Any other flight procedure and/or configuration described in the user's manual Procedure works as described not available Procedure suitable for novice pilots not available 0 not available						
180° turn achievable in 20 s Stall or spin occurs No A No A 24. Any other flight procedure and/or configuration described in the user's manual Procedure works as described not available Procedure suitable for novice pilots not available Ocascade occurs not available On ot available On ont available On ont available Ocascade occurs O	23. Alternativ					
Stall or spin occurs No A 24. Any other flight procedure and/or configuration described in the user's manual Procedure works as described not available 0 not available 0 not available 0 not available 0 on available 0 not available 0 on available 0 on the ava	_3.7		Yes	Α	Yes	Α
24. Any other flight procedure and/or configuration described in the user's manual Procedure works as described not available 0 ont available					1	
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Procedure suitable for novice pilots not available 0 not available 0 not available 0 not available 0 Cascade occurs not available 0 not available 0 Comments of test pilot	_ n. Ally Jule			0	not available	0
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