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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Flight test report: EN 926-2:2013 & LTF 91/09

	OIL. EN 920-2.2013		_	00.4000.0040		
Manufacturer Swing Flugsportgeräte		Certification number		PG_1386.2018		
Address	An der Leiten 4 82290 Landsberied Germany	Flight test	C	3.09.2018		
Glider model	Agera RS SM	Classification	C			
Serial number	99217	Representative	Günther Wörl			
Trimmer	no	Place of test		/illeneuve		
	-	Flace of test	٧	rillerleuve		
Folding lines used	no					
Test pilot		Claude Thurnheer	A	Alain Zoller		
Harness Harness to risers distance (cm) Distance between risers (cm)		Dudek - ZeroGravity	Gin Gliders - Gingo 2 L 43			
		44				
		43	44			
• •		88		100		
Total weight in fligh	nt (kg)	00	١	00		
1. Inflation/Take-off		В	_			
Rising behaviour		Easy rising, some pilot correction is required	В	Easy rising, some pilot correction is required	В	
Special take off technique	e required	No	Α	No	Α	
2. Landing		Α				
Special landing technique	e required	No	Α	No	Α	
3. Speed in straight flight	ht	В				
Trim speed more than 30 km/h		Yes	Α	Yes	Α	
Speed range using the controls larger than 10 km/h		Yes	Α	Yes	Α	
Minimum speed		25 km/h to 30 km/h	В	Less than 25 km/h	Α	
4. Control movement		С				
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 / 45 cm to 60 cm	С	Increasing / 45 cm to 60 cm	С	
Max. weight in flight greater than 100 kg						
Symmetric control pressure / travel		not available	0	not available	0	
5. Pitch stability exiting accelerated flight		A				
Dive forward angle on exit		Dive forward less than 30°	Α	Dive forward less than 30°	Α	
Collapse occurs		No	Α	No	Α	
6. Pitch stability operati flight	ng controls during accelerated	Α				
Collapse occurs		No	Α	No	Α	
7. Roll stability and dam	nping	Α				
Oscillations		Reducing	Α	Reducing	Α	
8. Stability in gentle spi	rals	Α				
Tendency to return to stra	aight flight	Spontaneous exit	Α	Spontaneous exit	Α	
9. Behaviour exiting a fully developed spiral dive		В				
Initial response of glider (first 180°)		Immediate reduction of rate of turn	Α	Immediate reduction of rate of turn	Α	
Tendency to return to straight flight		Spontaneous exit (g force decreasing, rate of turn decreasing)	Α	Spontaneous exit (g force decreasing, rate of turn decreasing)	Α	
Turn angle to recover nor	mal flight	720° to 1 080°, spontaneous recovery	В	720° to 1 080°, spontaneous recovery	В	
10. Symmetric front coll	lapse	A				
Approximately 30 % cho	ord					
Entry		Rocking back less than 45°	Α	Rocking back less than 45°	Α	
-		=		=		

Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Dive forward angle on exit Change of course	Dive forward 0° to 30° Keeping course	Α	Dive forward 0° to 30° Keeping course	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
At least 50% chord				
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	Α	Dive forward 0° to 30° / Keeping course	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
With accelerator				
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	Α	Dive forward 0° to 30° / Keeping course	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
11. Exiting deep stall (parachutal stall)	A			
Deep stall achieved	Yes	Α	Yes	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
Change of course	Changing course less than 45°	Α	Changing course less than 45°	Α
Cascade occurs			No	
	No	Α	NO	Α
12. High angle of attack recovery	A		On antonio and in large them On	
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Cascade occurs	No	Α	No	Α
13. Recovery from a developed full stall	Α			
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Collapse	No collapse	Α	No collapse	Α
Cascade occurs (other than collapses)	No	Α	No	Α
Rocking back	Less than 45°	Α	Less than 45°	Α
Line tension	Most lines tight	Α	Most lines tight	Α
14. Asymmetric collapse	В			
Small asymmetric collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 0° to 15°	Α	Less than 90° / Dive or roll angle 0° to 15°	Α
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 (or only a small number of collapsed cells with a spontaneous reinflation)	Α	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
Large asymmetric collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	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 (or only a small number of collapsed cells with a spontaneous reinflation)	Α	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
Small asymmetric collapse with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or				
roll angle	Less than 90° / Dive or roll angle 15° to 45°	Α	Less than 90° / Dive or roll angle 15° to 45°	Α

Total change of course Less than 360°	A Less than 360° A
Collapse on the opposite side occurs No (or only a small numl collapsed cells with a sp reinflation)	
Twist occurs No	A No A
Cascade occurs No	A No A
Folding lines used No	No
Large asymmetric collapse with fully activated accelerator	No.
Change of course until re-inflation / Maximum dive forward or roll angle 90° to 180° / Dive or roll 15° to 45°	angle B 90° to 180° / Dive or roll angle B 15° to 45°
Re-inflation behaviour Spontaneous re-inflation	A Spontaneous re-inflation A
Total change of course Less than 360°	A Less than 360° A
Collapse on the opposite side occurs No (or only a small number collapsed cells with a spreinflation)	
Twist occurs No	A No A
Cascade occurs No	A No A
Folding lines used No	No
15. Directional control with a maintained asymmetric A	
collapse	
Able to keep course Yes	A Yes A
180° turn away from the collapsed side possible in 10 s	A Yes A
Amount of control range between turn and stall or spin More than 50 % of the secontrol travel	mmetric A More than 50 % of the symmetric A control travel
16. Trim speed spin tendency A	
Spin occurs No	A No A
17. Low speed spin tendency A	
Spin occurs No	A No A
18. Recovery from a developed spin B	
Spin rotation angle after release Stops spinning in 90° to	180° B Stops spinning in less than 90° A
Cascade occurs No	A No A
19. B-line stall A	
Change of course before release Changing course less th	an 45° A Changing course less than 45° A
Behaviour before release Remains stable with stra	ght span A Remains stable with straight span A
Recovery Spontaneous in less tha	A Spontaneous in less than 3 s
Dive forward angle on exit Dive forward 0° to 30°	A Dive forward 0° to 30° A
Cascade occurs No	A No A
20. Big ears C	
Entry procedure Dedicated controls	A Dedicated controls A
Behaviour during big ears Unstable flight	C Unstable flight C
Recovery Spontaneous in less tha	A Spontaneous in less than 3 s
Dive forward angle on exit Dive forward 0° to 30°	A Dive forward 0° to 30° A
21. Big ears in accelerated flight C	
Entry procedure Dedicated controls	A Dedicated controls A
Behaviour during big ears Unstable flight	C Unstable flight C
Recovery Spontaneous in less tha	A Spontaneous in less than 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 maintaining big ears	A Stable flight A
22. Alternative means of directional control	
180° turn achievable in 20 s	A Yes A
Stall or spin occurs No	A No A
23. Any other flight procedure and/or configuration described in the user's manual	
Departure works as described	O mad available
Procedure works as described not available	0 not available 0
Procedure works as described not available Procedure suitable for novice pilots not available	0 not available 0

24. Comments of test pilot