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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Flight test report: EN 926-2:2013 & NfL 2-565-20

Manufacturer Sol Paragliders		Certification number	n number PG_1800.2021		
Address	Rua Walter Marquardt, 1180 cp 370 89259-565 Jaraguà do Sul, S.C. Brazil	Flight test	1	0.03.2021	
Glider model Atmus 3 M		Classification	В		
Serial number 23.166		Representative	Ν	lone	
Trimmer	no	Place of test	V	/illeneuve	
Folding lines used	no				
Test pilot		Claude Thurnheer	A	Alain Zoller	
Harness		Advance - Success 4 M	A	Advance - Success 4 L	
Harness to risers distance (cm)		44	4	44	
Distance between risers (cm)		44	4	46	
Total weight in flight (kg)		85		100	
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1. Inflation/Take-off		Α			
Rising behaviour		Smooth, easy and constant rising	А	Smooth, easy and constant rising	А
Special take off technique required		No	А	No	А
2. Landing		Α			
Special landing technique	required	No	А	No	А
3. Speed in straight flight		Α			
Trim speed more than 30	km/h	Yes	А	Yes	А
Speed range using the controls larger than 10 km/h		Yes	А	Yes	А
Minimum speed		Less than 25 km/h	А	Less than 25 km/h	А
4. Control movement		Α			
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	А	Increasing / greater than 60 cm	A
Max. weight in flight greater than 100 kg			0	not evolution	0
Symmetric control pressure / travel		not available	0	not available	0
5. Pitch stability exiting accelerated flight Dive forward angle on exit		A Dive forward less than 30°	А	Dive forward less than 30°	А
Collapse occurs	L .	No	A	No	A
•	ng controls during accelerated	A	Λ		~
Collapse occurs		No	А	No	А
7. Roll stability and dam	iping	Α			
Oscillations		Reducing	А	Reducing	А
8. Stability in gentle spir	rals	A			
Tendency to return to stra	light flight	Spontaneous exit	А	Spontaneous exit	А
9. Behaviour exiting a fu	Illy developed spiral dive	Α			
Initial response of glider (f	first 180°)	Immediate reduction of rate of turn	А	Immediate reduction of rate of turn	А
Tendency to return to stra	light flight	Spontaneous exit (g force decreasing, rate of turn decreasing)	A	Spontaneous exit (g force decreasing, rate of turn decreasing)	A
Turn angle to recover non	mal flight	Less than 720°, spontaneous recovery	A	Less than 720°, spontaneous recovery	A
10. Symmetric front coll	apse	Α			
Approximately 30 % cho	ord				

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Entry		Rocking back less than 45°	А	Rocking back less than 45°	А
		Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Dive forward angle on exit Change of course		Dive forward 0° to 30° Keeping course	A	Dive forward 0° to 30° Keeping course	А
Cascad	e occurs	No	А	No	А
Folding	lines used	No		No	
At leas	t 50% chord				
Entry		Rocking back less than 45°	А	Rocking back less than 45°	А
Recove	rv.	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
	ward angle on exit / Change of course	Dive forward 0° to 30° / Keeping	A	Dive forward 0° to 30° / Keeping	A
		course		course	
	le occurs	No	A	No	A
-	lines used	No		No	
	ccelerator				
Entry		Rocking back less than 45°	Α	Rocking back less than 45°	A
Recove	-	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Dive fo	ward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Keeping course	A
Cascad	le occurs	No	А	No	А
Folding	lines used	No		No	
11. Exi	ting deep stall (parachutal stall)	Α			
Deep s	tall achieved	Yes	А	Yes	А
Recove	ry	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Dive fo	ward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
	e of course	Changing course less than 45°	А	Changing course less than 45°	А
-	le occurs	No	A	No	A
	h angle of attack recovery	A			
Recove	• •	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
	le occurs	No	A	No	A
	covery from a developed full stall	B			7.
	ward angle on exit	Dive forward 0° to 30°	А	Dive forward 30° to 60°	В
Collaps		No collapse	A	No collapse	A
		No conapse	A	No	A
	e occurs (other than collapses)	Less than 45°		Less than 45°	
Rocking			A		A
Line ter		Most lines tight	A	Most lines tight	A
-	vmmetric collapse	В			
	asymmetric collapse				
Change roll ang	e of course until re-inflation / Maximum dive forward or le	Less than 90° / Dive or roll angle 15° to 45°	A	Less than 90° / Dive or roll angle 0° to 15°	A
Re-infla	ition behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total cl	nange of course	Less than 360°	А	Less than 360°	А
Collaps	e on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist o	ccurs	No	А	No	А
Cascad	e occurs	No	А	No	А
Folding	lines used	No		No	
Large a	asymmetric collapse				
Change roll ang	e of course until re-inflation / Maximum dive forward or le	90° to 180° / Dive or roll angle 15° to 45°	В	90° to 180° / Dive or roll angle 15° to 45°	В
Re-infla	ition behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total cl	nange of course	Less than 360°	А	Less than 360°	А
Collaps	e on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist o	ccurs	No	А	No	А
Cascad	le occurs	No	А	No	А
Folding	lines used	No		No	
Small a	asymmetric collapse with fully activated accelerator				
Change roll ang	of course until re-inflation / Maximum dive forward or le	Less than 90° / Dive or roll angle 15° to 45°	A	Less than 90° / Dive or roll angle 15° to 45°	A

Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
Folding lines used	No		No	
Large asymmetric collapse with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	90° to 180° / Dive or roll angle 15° to 45°	В	90° to 180° / Dive or roll angle 15° to 45°	В
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
Folding lines used	No		No	
15. Directional control with a maintained asymmetric	Α			
collapse				
Able to keep course	Yes	А	Yes	А
180° turn away from the collapsed side possible in 10 s	Yes	A	Yes	А
Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	A	More than 50 % of the symmetric control travel	A
16. Trim speed spin tendency	A			•
Spin occurs	No	A	No	A
17. Low speed spin tendency	A		N	•
Spin occurs	No	A	No	А
18. Recovery from a developed spin	A	•	Change an impired in large them 0.0%	•
Spin rotation angle after release	Stops spinning in less than 90°	A	Stops spinning in less than 90°	A
Cascade occurs	No	A	No	A
19. B-line stall	A Changing course loss than 45°	۸	Changing source loss than 45°	^
Change of course before release	Changing course less than 45°	A	Changing course less than 45°	A
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 Cascade occurs	Dive forward 0° to 30° No	A	Dive forward 0° to 30° No	A
20. Big ears	A	A	NO	A
Entry procedure	A Dedicated controls	А	Dedicated controls	А
Behaviour during big ears	Stable flight	A	Stable flight	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
21. Big ears in accelerated flight	A	~		~
Entry procedure	Dedicated controls	А	Dedicated controls	А
Behaviour during big ears	Stable flight	A	Stable flight	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
			Stable flight	A
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	A		
Behaviour immediately after releasing the accelerator while	Stable flight A	A		
Behaviour immediately after releasing the accelerator while maintaining big ears	, , , , , , , , , , , , , , , , , , ,	A	Yes	A
Behaviour immediately after releasing the accelerator while maintaining big ears 22. Alternative means of directional control	A			A A
Behaviour immediately after releasing the accelerator while maintaining big ears 22. Alternative means of directional control 180° turn achievable in 20 s	A Yes	A	Yes	
Behaviour immediately after releasing the accelerator while maintaining big ears 22. Alternative means of directional control 180° turn achievable in 20 s Stall or spin occurs 23. Any other flight procedure and/or configuration	A Yes No	A	Yes	
 Behaviour immediately after releasing the accelerator while maintaining big ears 22. Alternative means of directional control 180° turn achievable in 20 s Stall or spin occurs 23. Any other flight procedure and/or configuration described in the user's manual 	A Yes No O	A A	Yes No	A