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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



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

Manufacturer	Flow Paragliders	Certification number	F	PG_1553.2019		
Address 1/24 Clyde Road NSW 2099 Dee Why Australia		Flight test		31.07.2019		
Glider model	Fusion ML	Classification	c	;		
Serial number	FU1850027	Representative		Felipe Rezende		
Trimmer	no	Place of test		/illeneuve		
Folding lines used	no	riace of test	v	meneuve		
Test pilot		Alain Zoller	Δ	Anselm Rauh		
Harness		Supair - Altiplume M	S	Supair - Evo XC 3 L		
	istance (cm)	44		44		
Harness to risers distance (cm) Distance between risers (cm)			-			
	` '	44		48		
Total weight in fligh	nt (kg)	92	1	15		
1. Inflation/Take-off		В				
Rising behaviour		Easy rising, some pilot correction is required		Easy rising, some pilot correction is required	В	
Special take off technique	required	No	Α	No	Α	
2. Landing		A				
Special landing technique	•	No	Α	No	Α	
3. Speed in straight fligh		В		V		
Trim speed more than 30 km/h		Yes	A	Yes	A	
Speed range using the controls larger than 10 km/h		Yes	A	Yes	A B	
Minimum speed		25 km/h to 30 km/h A	В	25 km/h to 30 km/h	Б	
4. Control movement	to 80 kg	^				
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		not available	Ü	not available	Ū	
Symmetric control pressure / travel		Increasing / greater than 60 cm	Α	not available	0	
Max. weight in flight greater than 100 kg						
Symmetric control pressure / travel		not available	0	Increasing / greater than 65 cm	Α	
5. Pitch stability exiting accelerated flight		Α				
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 operation	ng controls during accelerated	Α				
Collapse occurs		No	Α	No	Α	
7. Roll stability and dam	ping	Α				
Oscillations		Reducing	Α	Reducing	Α	
8. Stability in gentle spir		Α				
Tendency to return to stra		Spontaneous exit	Α	Spontaneous exit	Α	
	Illy developed spiral dive	A				
Initial response of glider (f		Immediate reduction of rate of turn	A	Immediate reduction of rate of turn	A	
Tendency to return to stra		Spontaneous exit (g force decreasing, rate of turn decreasing)	A	Spontaneous exit (g force decreasing, rate of turn decreasing)	Α .	
Turn angle to recover nor		Less than 720°, spontaneous recovery	Α	Less than 720°, spontaneous recovery	Α	
10. Symmetric front coll	•	С				
Approximately 30 % cho	ord				_	
Entry		Rocking back less than 45°	Α	Rocking back less than 45°	Α	

B	0 1 1 1 0		0 1 1 1 0	
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 30° to 60° Keeping course	В	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 3 s to 5 s	В
Dive forward angle on exit / Change of course	Dive forward 30° to 60° / Keeping course	В	Dive forward 30° to 60° / Keeping course	В
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
With accelerator				
Entry	Rocking back less than 45°	Α	Rocking back greater than 45°	С
Recovery	Spontaneous in 3 s to 5 s	В	Spontaneous in 3 s to 5 s	В
,	Dive forward 30° to 60° /	В	Dive forward 0° to 30° / Keeping	A
Dive forward angle on exit / Change of course	Keeping course		course	
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
11. Exiting deep stall (parachutal stall)	Α			
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	Α	No	Α
12. High angle of attack recovery	A			
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Cascade occurs	No	Α	No	Α
13. Recovery from a developed full stall	В			, ,
Dive forward angle on exit	Dive forward 30° to 60°	В	Dive forward 30° to 60°	В
Collapse	No collapse	A	No collapse	A
Cascade occurs (other than collapses)	No	Α.	No	A
Rocking back	Less than 45°	Α	Less than 45°	A
Line tension	Most lines tight	Α	Most lines tight	Α
14. Asymmetric collapse	С			
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 15° to 45°	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	90° to 180° / Dive or roll angle 45° to 60°	С	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	Α	No (or only a small number of	Α
consepce on the opposite site section	collapsed cells with a spontaneous reinflation)		collapsed cells with a spontaneous reinflation)	
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
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 with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	90° to 180° / Dive or roll angle 45° to 60°	С	90° to 180° / Dive or roll angle 45° to 60°	С
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	
15. Directional control with a maintained asymmetric	A			
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 speed spin tendency	Α			
Spin occurs	No	Α	No	Α
17. Low speed spin tendency	A			
Spin occurs	No	Α	No	Α
18. Recovery from a developed spin	В			
Spin rotation angle after release	Stops spinning in 90° to 180°	В	Stops spinning in 90° to 180°	В
Cascade occurs	No	Α	No	Α
19. B-line stall	0			
Change of course before release	not available	0	not available	0
Behaviour before release	not available	0	not available	0
Recovery	not available	0	not available	0
Dive forward angle on exit	not available	0	not available	0
Cascade occurs	not available	0	not available	0
20. Big ears	Α			
Entry procedure	Dedicated controls	Α	Dedicated controls	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 in accelerated flight	A			
Entry procedure	Dedicated controls	Α	Dedicated controls	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
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	Α	Stable flight	Α
22. Alternative means of directional control	A			
180° turn achievable in 20 s	Yes	Α	Yes	Α
Stall or spin occurs	No	Α	No	Α
23. Any other flight procedure and/or configuration described in the user's manual	0			
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

24. Comments of test pilot