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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	Sky Paragliders a.s.	Certification number	F	PG_1573.2019	
Address	Okruzní 39 73911 Frýdlant nad Ostravicí Czech Republic	Flight test	1	1.11.2019	
Glider model	Apollo 2 light M	Classification	F	•	
Serial number 2459-11-1195					
		Representative	None		
Trimmer	no	Place of test	٧	'illeneuve	
Folding lines used	no				
Test pilot		Claude Thurnheer	Δ	lain Zoller	
Harness		Supair - Altiplume S	F	Flugsau - XX-Lite	
Harness to risers di	stance (cm)	44	4	40	
Distance between risers (cm)		40	4	44	
Total weight in fligh	` '	74	-	94	
Total weight in high	it (kg)	74	3	-	
1. Inflation/Take-off		Α			
Rising behaviour		Smooth, easy and constant rising	Α	Smooth, easy and constant rising	Α
Special take off technique	required	No	Α	No	Α
2. Landing		A			
Special landing technique		No	Α	No	Α
3. Speed in straight flight		A			
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
Minimum speed		Less than 25 km/h	Α	Less than 25 km/h	Α
4. Control movement	00 km	A			
Max. weight in flight up t		Ingrapping / greater than EE am	۸	not available	0
Symmetric control pressure / travel Max. weight in flight 80 kg to 100 kg		Increasing / greater than 55 cm	Α	not available	0
Symmetric control pressure / travel		not available	0	Increasing / greater than 60 cm	Α
Symmetric control pressure / travel Max. weight in flight greater than 100 kg		not available	U	increasing / greater than 60 cm	^
Symmetric control pressure / travel		not available	0	not available	0
5. Pitch stability exiting a		A		not available	
Dive forward angle on exit		Dive forward less than 30°	Α	Dive forward less than 30°	Α
Collapse occurs		No		No	Α
•	ng controls during accelerated	A			
Collapse occurs		No	Α	No	Α
7. Roll stability and damp	ping	A			
Oscillations		Reducing	Α	Reducing	Α
8. Stability in gentle spira	als	Α			
Tendency to return to strai	ight flight	Spontaneous exit	Α	Spontaneous exit	Α
9. Behaviour exiting a fu	lly developed spiral dive	Α			
Initial response of glider (fi	rst 180°)	Immediate reduction of rate of turn	Α	Immediate reduction of rate of turn	Α
Tendency to return to strai	ght 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 norm	nal flight	Less than 720°, spontaneous recovery	Α	Less than 720°, spontaneous recovery	Α
10. Symmetric front colla		В			
Approximately 30 % cho	rd				
Entry		Rocking back less than 45°	Α	Rocking back less than 45°	Α

Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward of 'to 30' Keeping out of 'to 30' Keeping					
Cosscade occurs	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Foliang lines used	Dive forward angle on exit Change of course		Α		Α
A test 50% chord Entry	Cascade occurs	No	Α	No	Α
Entity	Folding lines used	No		No	
Recovery Spontaneous in 3 s 10 5 s B Spontaneous in less than 3 s A	At least 50% chord				
Recovery Spontaneous in 3 s 10 5 s B Spontaneous in less than 3 s A	Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Dive forward angle on exit / Change of course	•	-	В	-	Α
Folding lines used No No No With accelerator	•	Dive forward 0° to 30° / Keeping		Dive forward 0° to 30° / Keeping	
Mith accelerator Entry	Cascade occurs	No	Α	No	Α
Recovery	Folding lines used	No		No	
Recovery Cascade occurs No No A No Collapse Cascade occurs No No A No Consequence Cascade occurs No No A Recovery Cascade occurs No No A Recovery Cascade occurs No No Collapse Cascade occurs No No Collapse Cascade occurs No No Cascade occurs No Collapse No Collapse Cascade occurs No No Collapse Cascade occurs No Collapse Cascade occurs No Collapse Course Cascade occurs No Collapse Course Cascade occurs No Collapse No Collapse Course Collapse Course Course Collapse Course Course Collapse Course Collapse Course No Collapse No Collapse Course Course No Collapse Course Course Course Course Course Course Course Course Collapse No Collapse Course	With accelerator				
Recovery Cascade occurs No No A No Collapse Cascade occurs No No A No Consequence Cascade occurs No No A Recovery Cascade occurs No No A Recovery Cascade occurs No No Collapse Cascade occurs No No Collapse Cascade occurs No No Cascade occurs No Collapse No Collapse Cascade occurs No No Collapse Cascade occurs No Collapse Cascade occurs No Collapse Course Cascade occurs No Collapse Course Cascade occurs No Collapse No Collapse Course Collapse Course Course Collapse Course Course Collapse Course Collapse Course No Collapse No Collapse Course Course No Collapse Course Course Course Course Course Course Course Course Collapse No Collapse Course	Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Dive forward angle on exit / Change of course Dive forward 0° to 30° / Keeping course Cascade occurs No	•	•	Α	•	Α
Part	•	Dive forward 0° to 30° / Keeping		Dive forward 0° to 30° / Keeping	
Folding lines used 11. Exiting deep stall (parachutal stall) A Pes Pes Pes Pes Pes Pes Pes Pes Pes Pe	Cascade occurs		Δ		Δ
Deep stall achieved			^		^
Peep stall achieved		-		110	
Recovery Dive forward only en exist Dive forward or with Dive forward or the 30° and before and the second or the 30° and			۸	Van	۸
Dive forward angle on exit Change of course Changing course less than 45" A Changing course less than 3 s A No Changing course less than 45" A No No Changing course less than 45" A No Changing course less than 45" A No Changing course less than 3 s and than 3 s and than 3 s and 3 s and than 3 s and than 3 s and 3 s and than 3 s and 3 s and than 3 s and 3 s a					
Change of course No					
Cascade occurs No	Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Recovery Rec	Change of course	Changing course less than 45°	Α	Changing course less than 45°	Α
Recovery Soportaneous in less than 3 s	Cascade occurs	No	Α	No	Α
Cascade occurs No A No No A	12. High angle of attack recovery	Α			
13. Recovery from a developed full stall Dive forward 0° to 30° A Dive forward 0° to 30° A Collapse No collapse No collapse A No collapse A No collapse A Rocking back Less than 45° A Less 45° A A A A A A A A A	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Dive forward on to 30° and both collapse No collapse No collapse No collapse No collapse A Less than 45° and Less than 45° A Less than 45° A Less than 45° A Less than 45° A Most lines tight A Most lines tight A Less than 45° A Less than 45° A Most lines tight A Less than 45° A Most lines tight A Less than 45° A Less than 45° A 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 No (or only a small number of collapsed cells with a spontaneous reinflation A Spontaneous re-inflation A Spontaneous re	Cascade occurs	No	Α	No	Α
Dive forward angle on exit Dive forward 0° to 30° A Dive forward 0° to 30° A Collapse A Collapse A No collapse A Rocking back Less than 45° A Line tension Most lines tight A Most lines tight A Line tension Most lines tight A Most lines tight A Line tension Most lines tight A Most lines tight A Line tension A Line tension Most lines tight A Line tension A Most lines tight A Line tension A Line tension A Most lines tight A Line tension	13. Recovery from a developed full stall	A			
Collapse Occurs (other than collapses) No collapse A No collapse A No collapse A Rocking back Less than 45° A Line tension Most lines tight A	Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Cascade occurs (other than collapses) Rocking back Less than 45° A Less than 45° A Less than 45° A Line tension Most lines tight A Most lines tight A Line tension Most lines tight A Most lines tight A Line tension Most lines tight A Most lines tight A Less than 45° A Less than 45° A Less than 45° A Less than 90° / Dive or roll angle of course until re-inflation / Maximum dive forward or roll angle of tourse Less than 90° / Dive or roll angle of tourse Less than 360° A Less than 360° / Dive or roll angle of tourse Less than 360° A Less than 360° / Dive or roll angle of tourse Less than 360° A Less than 360° A Less than 360° A Less than 360° A Less than 360° A Less than 360° A Less than 360° A No (or only a small number of collapsed cells with a spontaneous reinflation) A Rocking back Less than 360° A No A No A Rocking back Less than 360° A No No No No No Large asymmetric collapse Diversity		No collapse	Α	No collapse	Α
Rocking back Less than 45° A Less than 45° A Less than 45° A					
Line tension Most lines tight A Most lines tight A Most lines tight A					
14. Asymmetric collapse Small asymmetric collapse B Change of course until re-inflation / Maximum dive forward or roll angle or loangle of course Less than 90° / Dive or roll angle of to 15° A Less than 90° / Dive or roll angle of to 15° A Less than 90° / Dive or roll angle of to 15° A Less than 90° / Dive or roll angle of to 15° A Less than 360° A No (or only a small number of collapsed cells with a spontaneous re-inflation) A No (or only a small number of collapsed cells with a spontaneous re-inflation) A No (or only a small number of collapsed cells with a spontaneous re-inflation) A No (or only a small number of collapsed cells with a spontaneous re-inflation) A No (or only a small number of collapsed cells with a spontaneous re-inflation or roll angle 15° to 45° A No (or only a small number of collapsed cells with a spontaneous re-inflation) A Spontaneous re-inflation B 90° to 180° / Dive or roll angle 15° to 45° B 90° to 180° / Dive or roll angle 15° to 45° B 90° to 180° / Dive or roll angle 15° to 45° B 90° to 180° / Dive or roll angle 15° to 45° B 90° to 180° / Dive or roll angle 15° to 45° B 90° to 180° / Dive or roll angle 15° to 45° B 90° to 180° / Dive or roll angle 15° to 45° B 90° to 180° / Dive or roll angle 15° to 45° B 90° to 180° / Dive or roll angle 15° to 45° B 90° to 180° / Dive or roll angle 15° to 45° B 90° to 180° / Dive or roll angle 15° to 45° B 90° to 180° / Dive or roll angle 15° t					
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Change of course until re-inflation / Maximum dive forward or roll angle of to 15° by	·	В			
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Collapse on the opposite side occurs No (or only a small number of collapsed cells with a spontaneous reinflation) Twist occurs No No A No No A No No A No No A No		•	Α	'	Α
Twist occurs No No A No	Total change of course	Less than 360°	Α		Α
Cascade occurs Folding lines used Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs No (or only a small number of collapse dells with a spontaneous re-inflation) Twist occurs No (or only a small number of collapsed cells with a spontaneous re-inflation) Twist occurs No (or only a small number of collapsed cells with a spontaneous re-inflation) Twist occurs No (or only a small number of collapsed cells with a spontaneous re-inflation) Twist occurs No (or only a small number of collapsed cells with a spontaneous re-inflation) Twist occurs No (or only a small number of collapsed cells with a spontaneous re-inflation) A No (or only a small number of collapsed cells with a spontaneous re-inflation) A No (or only a small number of collapsed cells with a spontaneous re-inflation) A No (or only a small number of collapsed cells with a spontaneous re-inflation) A No (or only a small number of collapsed cells with a spontaneous re-inflation) A No (or only a small number of collapsed cells with a spontaneous re-inflation) A No (or only a small number of collapsed cells with a spontaneous re-inflation) A No (or only a small number of collapsed cells with a spontaneous re-inflation) A No (or only a small number of collapsed cells with a spontaneous re-inflation) A No (or only a small number of collapsed cells with a spontaneous re-inflation) A No (or only a small number of collapsed cells with a spontaneous re-inflation) A No (or only a small number of collapsed cells with a spontaneous re-inflation) A No (or only a small number of collapsed cells with a spontaneous re-inflation) A No (or only a small number of collapsed cells with a spontaneous re-inflation) A No (or only a small number of collapsed cells with a spontaneous re-inflation) A No (or only a small number of collapsed cells with a spontaneous re-inflation) A No (or only a small number of re-inflation)	Collapse on the opposite side occurs	collapsed cells with a spontaneous	Α	collapsed cells with a spontaneous	Α
Folding lines used Large asymmetric collapse Charge of course until re-inflation / Maximum dive forward or roll angle of langle of course until re-inflation / Maximum dive forward or roll angle roll angle of course until re-inflation behaviour Re-inflation behaviour Total change of course Collapse on the opposite side occurs Collapse on the opposite side occurs No (or only a small number of collapsed cells with a spontaneous re-inflation) Twist occurs No No No A No Cascade occurs No No No Small asymmetric collapse with fully activated accelerator Change of course until re-inflation / Maximum dive forward or roll angle 15° to 45° No Less than 90° / Dive or roll angle 15° to 45° A Less than 90° / Dive or roll angle 15° to 45° A Less than 90° / Dive or roll angle 15° to 45° A Less than 90° / Dive or roll angle 15° to 45° A Less than 90° / Dive or roll angle 15° to 45°	Twist occurs	No	Α	No	Α
Large asymmetric collapseChange of course until re-inflation / Maximum dive forward or roll angle angle90° to 180° / Dive or roll angle 15° to 45°B90° to 180° / Dive or roll angle 15° to 45°BRe-inflation behaviourSpontaneous re-inflationASpontaneous re-inflationATotal change of courseLess than 360°ALess than 360°ACollapse on the opposite side occursNo (or only a small number of collapsed cells with a spontaneous re-inflation)ANo (or only a small number of collapsed cells with a spontaneous re-inflation)ATwist occursNoANoANoACascade occursNoANoANoAFolding lines usedNoNoNoNoALess than 90° / Dive or roll angle 15° to 45°ALess than 90° / Dive or roll angle 15° to 45°ALess than 90° / Dive or roll angle 15° to 45°ALess than 90° / Dive or roll angle 15° to 45°A	Cascade occurs	No	Α	No	Α
Change of course until re-inflation / Maximum dive forward or roll angle roll angle roll angle roll angle serion provided angle roll	Folding lines used	No		No	
roll angle Re-inflation behaviour Spontaneous re-inflation A Spontaneous re-inflation A Spontaneous re-inflation A Spontaneous re-inflation A Less than 360° A Less than 360° A Less than 360° A Collapse on the opposite side occurs No (or only a small number of collapsed cells with a spontaneous reinflation) Twist occurs No No A	Large asymmetric collapse				
Total change of course Collapse on the opposite side occurs No (or only a small number of collapsed cells with a spontaneous reinflation) Twist occurs No No No A No (or only a small number of collapsed cells with a spontaneous reinflation) Twist occurs No No A No A No A No A No A No A Folding lines used No No Small asymmetric collapse with fully activated accelerator Change of course until re-inflation / Maximum dive forward or roll angle Total change of course a than 360° A Less than 360° A No No A No No No No Small asymmetric collapse with fully activated accelerator Change of course until re-inflation / Maximum dive forward or roll angle 15° to 45° A Less than 90° / Dive or roll angle 15° to 45°	• .		В		В
Collapse on the opposite side occurs No (or only a small number of collapsed cells with a spontaneous reinflation) Twist occurs No No A No (or only a small number of collapsed cells with a spontaneous reinflation) A No A No A No A No A No A No A Cascade occurs No No No No Small asymmetric collapse with fully activated accelerator Change of course until re-inflation / Maximum dive forward or roll angle Test than 90° / Dive or roll angle A Less than 90° / Dive or roll angle A Less than 90° / Dive or roll angle A Less than 90° / Dive or roll angle 15° to 45°	Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
collapsed cells with a spontaneous reinflation) Twist occurs No No A No A No A No A Folding lines used No Small asymmetric collapse with fully activated accelerator Change of course until re-inflation / Maximum dive forward or roll angle Collapsed cells with a spontaneous reinflation) A No A No No No Less than 90° / Dive or roll angle A Less than 90° / Dive or roll angle 15° to 45° A Collapsed cells with a spontaneous reinflation) A No A Less than 90° / Dive or roll angle 15° to 45°	Total change of course	Less than 360°	Α	Less than 360°	Α
Cascade occurs No No No No No No Small asymmetric collapse with fully activated accelerator Change of course until re-inflation / Maximum dive forward or roll angle Cascade occurs No No A No No Less than 90° / Dive or roll angle A Less than 90° / Dive or roll angle 15° to 45° A Less than 90° / Dive or roll angle 15° to 45°	Collapse on the opposite side occurs	collapsed cells with a spontaneous	Α	collapsed cells with a spontaneous	Α
Folding lines used No 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 A Less than 90° / Dive or roll angle 15° to 45°	Twist occurs	No	Α	No	Α
Folding lines used No 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 A Less than 90° / Dive or roll angle 15° to 45°	Cascade occurs	No	Α	No	Α
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 A Less than 90° / Dive or roll angle A Less than 90° / Dive or roll angle A 15° to 45°	Folding lines used	No		No	
Change of course until re-inflation / Maximum dive forward or roll angle Less than 90° / Dive or roll angle A Less than 90° / Dive or roll angle A 15° to 45°	-	-		-	
	Change of course until re-inflation / Maximum dive forward or		Α		Α
	-	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α

Total sharper of source	Less than 360°	^	Lacathan 200°	^
Total change of course Collapse on the opposite side occurs	No (or only a small number of	A A	Less than 360° No (or only a small number of	A A
Collapse on the opposite side occurs	collapsed cells with a spontaneous reinflation)	^	collapsed cells with a spontaneous reinflation)	۸
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
Large asymmetric collapse with fully activated accelerator	r			
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	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	Α			
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	A			
Spin rotation angle after release	Stops spinning in less than 90°	Α	Stops spinning in less than 90°	Α
Cascade occurs	No	Α	No	Α
19. B-line stall	A			
Change of course before release	Changing course less than 45°	Α	Changing course less than 45°	Α
Behaviour before release	Remains stable with straight span	Α	Remains stable with straight span	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
Cascade occurs	No	Α	No	Α
20. Big ears	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
21. Big ears in accelerated flight	В			
Entry procedure	Dedicated controls	Α	Dedicated controls	Α
Behaviour during big ears	Stable flight	Α	Stable flight	Α
Recovery	Recovery through pilot action in less than a further 3 s	В	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	Α			
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