Route du Pré-au-Comte 8 🔺 CH-1844 Villeneuve 🔺 +41 (0)21 965 65 65

Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes

Approximately 30 % chord



Manufacturer	Sky Paragliders a.s.	Certification number	F	PG_1810.2021	
Address	Okruzní 39 73911 Frýdlant nad Ostravicí Czech Republic	Flight test	1	8.04.2018	
Glider model	Kudos 2 XS	Classification	E	3	
Serial number	2351-11-0599	Representative	Ν	lone	
Trimmer	no	Place of test	\	/illeneuve	
Folding lines used	no	1 1000 01 1001		monouvo	
Test pilot		Light pilot under Air Turquoise supervision		ight pilot under Air Turquoise upervision	
Harness		Supair - Altiplume S	F	- Flugsau - XX-Lite	
Harness to risers d	listance (cm)	44		.0	
Distance between r	• •	40		.0	
	` ,			-	
Total weight in fligi	nt (kg)	55	/	75	
1. Inflation/Take-off		A			
Rising behaviour		Smooth, easy and constant rising	Α	Smooth, easy and constant rising	Α
Special take off technique	e required	No	Α	No	Α
2. Landing		<b>A</b>			
Special landing technique	·	No	Α	No	Α
3. Speed in straight flight		В			
Trim speed more than 30		Yes	A	Yes	A
	ontrols larger than 10 km/h	Yes	A	Yes	Α
Minimum speed		Less than 25 km/h	Α	25 km/h to 30 km/h	В
4. Control movement	40 90 km	Α			
Max. weight in flight up Symmetric control pressu		Increasing / greater than EE am	٨	Increasing / greater than EE am	Α
Max. weight in flight 80		Increasing / greater than 55 cm	Α	Increasing / greater than 55 cm	A
Symmetric control pressu	•	not available	0	not available	0
Max. weight in flight gre		not available	Ü	not available	U
Symmetric control pressu	<del>-</del>	not available	0	not available	0
5. Pitch stability exiting		A		not available	
Dive forward angle on exi		Dive forward less than 30°	Α	Dive forward less than 30°	Α
Collapse occurs		No	Α	No	Α
•	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 spir	rals	Α			
Tendency to return to stra	0 0	Spontaneous exit	Α	Spontaneous exit	Α
9. Behaviour exiting a fu	ully developed spiral dive	A			
Initial response of glider (		Immediate reduction of rate of turn	Α	Immediate reduction of rate of turn	Α
Tendency to return to stra		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		Less than 720°, spontaneous recovery	Α	Less than 720°, spontaneous recovery	Α
10. Symmetric front coll	lapse	A			

Entry Recovery Spontaneous in less than 45° Recovery Dive forward angle on exit Change of course Dive forward of to 30° Keeping course Cascade occurs No Recovery Folding lines used No Recovery Recovery Dive forward angle on exit / Change of course  Entry Recovery Spontaneous in less than 45° Recovery Dive forward angle on exit / Change of course Dive forward 30° to 60° / Entering a turn of less than 90° Folding lines used No No Rocking back less than 45° Recovery Dive forward angle on exit / Change of course Dive forward 30° to 60° / Entering a turn of less than 90° Folding lines used No No No Recovery Recovery Recovery Recovery Spontaneous in 3 s to 5 s Dive forward angle on exit / Change of course Dive forward 30° to 60° / Entering a turn of less than 45° Recovery Recovery Recovery Recovery Spontaneous in 3 s to 5 s Dive forward angle on exit / Change of course Dive forward 30° to 60° / Keeping course Recovery Reposition of the stream of the stream 3 s Dive forward angle on exit / Change of course No	A A A
Dive forward angle on exit Change of course  Cascade occurs  No  No  A No  A No  At least 50% chord  Entry  Recovery  Dive forward angle on exit / Change of course  Dive forward angle on exit / Change of course  Dive forward angle on exit / Change of course  Dive forward angle on exit / Change of course  Dive forward angle on exit / Change of course  Dive forward angle on exit / Change of course  Dive forward angle on exit / Change of course  Dive forward angle on exit / Change of course  Dive forward angle on exit / Change of course  Dive forward angle on exit / Change of course  Dive forward angle on exit / Change of course  Dive forward angle on exit / Change of course  Entry  Recovery  Dive forward angle on exit / Change of course  Dive forward angle on exit / Change of course  Dive forward angle on exit / Change of course  Dive forward angle on exit / Change of course  Cascade occurs  No  No  Dive forward angle on exit / Change of course  Cascade occurs  No  No  Dive forward angle on exit / Change of course  Cascade occurs  No  No  A No  Tolding lines used  No  No  A No  No  11. Exiting deep stall (parachutal stall)  Deep stall achieved  Yes  Recovery  Spontaneous in less than 3 s  Dive forward angle on exit  Change of course  Changing course less than 45°  A Changing course less than 45°  Cascade occurs  No  A No  12. High angle of attack recovery  A Spontaneous in less than 3 s  A Spontaneous in less than 3 s  A Spontaneous in less than 3 s  No  A No  13. Recovery from a developed full stall  Dive forward on to 30°  A Dive forward on to 30°  A Dive forward on to 30°  Dive forward angle on exit  Dive forward on to 30°  A Dive forward on to 30°	
Cascade occurs  No A No A No A No At least 50% chord  Entry Recovery British and the station of less than 45° Recovery Cascade occurs No No Rocking back less than 45° A Rocking back less than 45° British forward angle on exit / Change of course Cascade occurs No No No No Recovery Cascade occurs No No Recovery Recovery Recovery Recovery Recovery Recovery Recovery Recovery Dive forward 30° to 60° / Repeling a turn of less than 45° Recovery Recovery Recovery Recovery Dive forward 30° to 60° / Repeling occurse Recovery Recovery Recovery Recovery Dive forward 30° to 60° / Repeling occurse Recovery Repling course Recovery	Α
Folding lines used  At least 50% chord  Entry Recovery Spontaneous in less than 45° Recovery Spontaneous in less than 3 s Dive forward angle on exit / Change of course Cascade occurs No No No With accelerator Entry Recovery Spontaneous in less than 90° Folding lines used No No No No With accelerator  Entry Recovery Spontaneous in less than 45° Recovery Spontaneous in less than 45° Recovery Spontaneous in 3 s to 5 s Spontaneous in less than 45° Recovery Spontaneous in 3 s to 5 s Spontaneous in less than 3 s Dive forward on to 30° / Keeping course Cascade occurs No No No No  11. Exiting deep stall (parachutal stall) Deep stall achieved Recovery Spontaneous in less than 3 s Dive forward angle on exit Dive forward on to 30° Change of course less than 45° A Changing course less than 45° Cascade occurs No A No A No Change of course is sthan 3 s A Spontaneous in less than 3 s A Spontaneous in less than 3 s A No Change of course is sthan 3 s A Spontaneous in less than 3 s A Spontaneous in less than 3 s A No Change of course is sthan 45° Cascade occurs No A No Dive forward 0° to 30° A Dive forward 0° to 30° A Dive forward 0° to 30°	
At least 50% chord  Entry Recovery Spontaneous in less than 45° Recovery Spontaneous in less than 3 s Dive forward angle on exit / Change of course Dive forward 30° to 60° / Entering a turn of less than 90° Cascade occurs No No No With accelerator Entry Recovery Spontaneous in 3 s to 5 s Dive forward 30° to 30° / Keeping course  Entry Recovery Dive forward 30° to 60° / Entering a turn of less than 90° No With accelerator Entry Recovery Spontaneous in 3 s to 5 s Dive forward angle on exit / Change of course Dive forward 30° to 60° / Keeping course Cascade occurs No No No No  11. Exiting deep stall (parachutal stall) A Deep stall achieved Yes Recovery Spontaneous in less than 3 s Dive forward 0° to 30° Change of course Change of attack recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Spontaneous in less than 3 s A No  12. High angle of attack recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A No  13. Recovery from a developed full stall Dive forward 0° to 30° A Dive forward 0° to 30°	Α
Entry Recovery Spontaneous in less than 45° A Rocking back less than 45° Recovery Spontaneous in less than 3 s Dive forward angle on exit / Change of course Dive forward 30° to 60° / Entering a turn of less than 90° Rocking back less than 45° B Dive forward 0° to 30° / Keeping course Cascade occurs No	
Recovery  Dive forward angle on exit / Change of course  Dive forward 30° to 60° / Entering a turn of less than 3 s  Dive forward one on exit / Change of course  Dive forward 30° to 60° / Entering a turn of less than 90°  Cascade occurs  No  No  A  No  With accelerator  Entry  Recovery  Dive forward 30° to 60° / No  No  With accelerator  Entry  Recovery  Spontaneous in 3 s to 5 s  Dive forward 30° to 60° / Spontaneous in less than 45°  Recovery  Dive forward 30° to 60° / Sepontaneous in less than 3 s  Dive forward angle on exit / Change of course  Cascade occurs  No  No  11. Exiting deep stall (parachutal stall)  Deep stall achieved  Recovery  Spontaneous in less than 3 s  Dive forward one oxit  Change of course  No  A  No  12. High angle of attack recovery  Spontaneous in less than 3 s  A Spontaneous in less than 3 s  Cascade occurs  No  A  No  13. Recovery from a developed full stall  A  Dive forward on to 30°  A Dive forward on to 30°  A Dive forward on to 30°  A Dive forward on to 30°  A Dive forward on to 30°  A Dive forward on to 30°  A Dive forward on to 30°  A Dive forward on to 30°  A Dive forward on to 30°  A Dive forward on to 30°  A Dive forward on to 30°  A Dive forward on to 30°  A Dive forward on to 30°  A Dive forward on to 30°  A Dive forward on to 30°  A Dive forward on to 30°  A Dive forward on to 30°  A Dive forward on	
Dive forward angle on exit / Change of course  Dive forward 30° to 60° / Entering a turn of less than 90°	Α
Dive forward angle on exit / Change of course  Dive forward 30° to 60° / Entering a turn of less than 90°	Α
Entering a turn of less than 90° course  Cascade occurs No No No With accelerator Entry Recovery Entry Recovery Dive forward angle on exit / Change of course  Cascade occurs No No Dive forward 30° to 60° / Keeping course Cascade occurs No No No  11. Exiting deep stall (parachutal stall) Deep stall achieved Recovery Spontaneous in less than 3 s Dive forward 0° to 30° to 30° Change of course Cascade occurs No No No No  12. High angle of attack recovery Spontaneous in less than 3 s Cascade occurs No	Α
Folding lines used  With accelerator  Entry Recovery Recovery Spontaneous in 3 s to 5 s Dive forward angle on exit / Change of course Cascade occurs No A Recovery No A No Deep stall achieved Recovery Spontaneous in less than 3 s Dive forward 30° to 60° / Keeping course No A No  11. Exiting deep stall (parachutal stall) Deep stall achieved Recovery Spontaneous in less than 3 s Dive forward 0° to 30° / Keeping course  Cascade occurs A  A  Deap stall achieved Recovery Spontaneous in less than 3 s Dive forward on to 30° Change of course Cascade occurs No A  Changing course less than 45° A Changing course less than 45° A Recovery A  Recovery Spontaneous in less than 3 s A Spontaneous in less than 45° A Changing course less than 45° A Changing course less than 45° A No  12. High angle of attack recovery A  Recovery Spontaneous in less than 3 s A No  13. Recovery from a developed full stall A Dive forward 0° to 30° A Dive forward 0° to 30° A Dive forward 0° to 30°	
With accelerator Entry Recovery Spontaneous in 3 s to 5 s B Spontaneous in less than 45° Recovery Dive forward angle on exit / Change of course Dive forward 30° to 60° / Keeping course Cascade occurs No A No No  11. Exiting deep stall (parachutal stall) A Deep stall achieved Yes Spontaneous in less than 3 s Dive forward angle on exit Dive forward 0° to 30° A Dive forward 0° to 30° Change of course Cascade occurs  No No No  12. High angle of attack recovery Spontaneous in less than 3 s Cascade occurs No A No  13. Recovery from a developed full stall A Dive forward 0° to 30° A Dive forward 0° to 30° A Dive forward 0° to 30° A No  13. Recovery from a developed full stall A Dive forward 0° to 30° A Dive forward 0° to 30° A Dive forward 0° to 30° A No  14. Dive forward 0° to 30° A No	Α
Entry Rocking back less than 45° A Rocking back less than 45° Becovery Spontaneous in 3 s to 5 s B Spontaneous in less than 3 s Dive forward angle on exit / Change of course Dive forward 30° to 60° / Keeping course Cascade occurs No A No	
Recovery Dive forward angle on exit / Change of course Dive forward 30° to 60° / Keeping course Cascade occurs No No No No  11. Exiting deep stall (parachutal stall) Deep stall achieved Recovery Dive forward 0° to 30° Spontaneous in less than 3 s Dive forward 0° to 30° A Yes Recovery Dive forward 0° to 30° Change of course Cascade occurs No A Changing course less than 45° Cascade occurs A Recovery A Recovery Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Changing course less than 45° A Changing course less than 45° Cascade occurs No A Spontaneous in less than 3 s A Spontaneous in less than 45° A Changing course less than 45° Cascade occurs A Recovery A Recovery Spontaneous in less than 3 s A Spontaneous in less	
Recovery Dive forward angle on exit / Change of course Dive forward 30° to 60° / Keeping course Cascade occurs No No No No  11. Exiting deep stall (parachutal stall) Deep stall achieved Recovery Dive forward 0° to 30° Spontaneous in less than 3 s Dive forward 0° to 30° A Yes Recovery Dive forward 0° to 30° Change of course Cascade occurs No A Changing course less than 45° Cascade occurs A Recovery A Recovery Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Changing course less than 45° A Changing course less than 45° Cascade occurs No A Spontaneous in less than 3 s A Spontaneous in less than 45° A Changing course less than 45° Cascade occurs A Recovery A Recovery Spontaneous in less than 3 s A Spontaneous in less	Α
Dive forward angle on exit / Change of course  Dive forward 30° to 60° / Keeping course  No  No  No  No  No  11. Exiting deep stall (parachutal stall)  Deep stall achieved  Recovery  Dive forward 0° to 30° / Keeping course  Spontaneous in less than 3 s  Dive forward o° to 30°  Change of course  Cascade occurs  No  A  Dive forward 0° to 30°  A  Dive forward 0° to 30°  A  Dive forward 0° to 30°  Changing course less than 45°  Cascade occurs  No  A  Spontaneous in less than 45°  A  Changing course less than 45°  A  No  12. High angle of attack recovery  Recovery  Spontaneous in less than 3 s  No  A  Spontaneous in less than 3 s  A  Dive forward 0° to 30°  A  No  13. Recovery from a developed full stall  Dive forward 0° to 30°  A  Dive forward 0° to 30°	Α
Cascade occurs  No  No  No  No  No  11. Exiting deep stall (parachutal stall)  Deep stall achieved  Recovery  Spontaneous in less than 3 s  Dive forward angle on exit  Cascade occurs  No  A  Spontaneous in less than 45°  Cascade occurs  No  A  Recovery  Spontaneous in less than 45°  A  Changing course less than 45°  A  No  12. High angle of attack recovery  Recovery  Spontaneous in less than 3 s  No  A  Spontaneous in less than 45°  A  Spontaneous in less than 45°  A  No  13. Recovery from a developed full stall  Dive forward 0° to 30°  A  Dive forward 0° to 30°  A  Dive forward 0° to 30°  A  Dive forward 0° to 30°	Α
Folding lines used  11. Exiting deep stall (parachutal stall)  Deep stall achieved  Yes  Spontaneous in less than 3 s  Dive forward angle on exit  Dive forward 0° to 30°  Change of course  Cascade occurs  No  A  Cascade occurs  Recovery  Spontaneous in less than 45°  A  Changing course less than 45°  A  No  12. High angle of attack recovery  Recovery  Spontaneous in less than 3 s  A  Spontaneous in less than 45°  A  No  13. Recovery from a developed full stall  Dive forward 0° to 30°  A  Dive forward 0° to 30°	٨
11. Exiting deep stall (parachutal stall)  Deep stall achieved  Recovery  Spontaneous in less than 3 s  Dive forward angle on exit  Dive forward 0° to 30°  Change of course  Cascade occurs  No  A  Dive forward  A  Changing course less than 45°  A  No  12. High angle of attack recovery  Recovery  Spontaneous in less than 3 s  A  Spontaneous in less than 45°  A  No  13. Recovery from a developed full stall  Dive forward 0° to 30°  A  Dive forward 0° to 30°	Α
Deep stall achieved  Recovery  Spontaneous in less than 3 s  Dive forward angle on exit  Dive forward 0° to 30°  Change of course  Cascade occurs  No  A  Changing course less than 45°  A  No  12. High angle of attack recovery  Recovery  Spontaneous in less than 3 s  Cascade occurs  No  A  Spontaneous in less than 45°  A  Spontaneous in less than 3 s  A  Spontaneous in less than 3 s  A  No  13. Recovery from a developed full stall  Dive forward 0° to 30°  A  Dive forward 0° to 30°  A  Dive forward 0° to 30°  A  Dive forward 0° to 30°	
Recovery Spontaneous in less than 3 s Dive forward angle on exit Dive forward 0° to 30° Change of course Cascade occurs No A Changing course less than 45° A Changing course less than 45° A No  12. High angle of attack recovery A Recovery Spontaneous in less than 3 s Cascade occurs No A Spontaneous in less than 3 s A Spontaneous in less than 45° A Spontaneous in less tha	
Dive forward angle on exit  Dive forward 0° to 30°  Change of course  Changing course less than 45°  A Changing course less than 45°  Cascade occurs  No  A No  12. High angle of attack recovery  Recovery  Spontaneous in less than 3 s  Cascade occurs  No  A Spontaneous in less than 3 s  Cascade occurs  No  A No  13. Recovery from a developed full stall  Dive forward 0° to 30°  A Dive forward 0° to 30°  A Dive forward 0° to 30°	Α
Changing course less than 45° A Changing course less than 45° Cascade occurs No A No  12. High angle of attack recovery Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s Cascade occurs No A No  13. Recovery from a developed full stall Dive forward angle on exit Dive forward 0° to 30° A Changing course less than 45° A No  A No  A Dive forward 0° to 30°	Α
Cascade occurs  No A No  12. High angle of attack recovery A  Recovery Spontaneous in less than 3 s Cascade occurs No A No  13. Recovery from a developed full stall Dive forward angle on exit  No A Dive forward 0° to 30° A Dive forward 0° to 30°	Α
12. High angle of attack recovery  Recovery  Spontaneous in less than 3 s  A Spontaneous in less than 3 s  Cascade occurs  No  A No  13. Recovery from a developed full stall  Dive forward angle on exit  Dive forward 0° to 30°  A Dive forward 0° to 30°	Α
Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s Cascade occurs No A No  13. Recovery from a developed full stall Dive forward angle on exit Dive forward 0° to 30° A Dive forward 0° to 30°	Α
Cascade occurs  No A No  13. Recovery from a developed full stall  Dive forward angle on exit  Dive forward 0° to 30°  A Dive forward 0° to 30°	
13. Recovery from a developed full stall  Dive forward angle on exit  A  Dive forward 0° to 30°  A  Dive forward 0° to 30°	Α
Dive forward angle on exit Dive forward 0° to 30° A Dive forward 0° to 30°	Α
Dive forward 0° to 30° A Dive forward 0° to 30°	
	Α
The contapos	Α
Cascade occurs (other than collapses)  No  A  No	Α
Rocking back Less than 45° A Less than 45°	Α
	Α
· · · · · · · · · · · · · · · · · · ·	А
Small asymmetric collapse	
Change of course until re-inflation / Maximum dive forward or roll angle roll angle 15° to 45°  Less than 90° / Dive or roll angle 0° to 15°	Α
Re-inflation behaviour Spontaneous re-inflation A Spontaneous re-inflation	Α
Total change of course Less than 360° A Less than 360°	Α
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)	Α
Twist occurs No A No	Α
Cascade occurs No A No	Α
Folding lines used No No	
Large asymmetric collapse	
Change of course until re-inflation / Maximum dive forward or roll angle angle Less than 90° / Dive or roll angle A 90° to 180° / Dive or roll angle 15° to 45°	В
Re-inflation behaviour Spontaneous re-inflation A Spontaneous re-inflation	Α
Total change of course Less than 360° A Less than 360°	Α
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)	Α
Twist occurs No A No	Α
Cascade occurs No A 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  A Less than 90° / Dive or roll angle 0° to 15°	

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 15° to 45°	В	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	
15. Directional control with a maintained asymmetric collapse	Α			
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	A			
Spin occurs	No	Α	No	Α
17. Low speed spin tendency	A			
Spin occurs	No	Α	No	Α
18. Recovery from a developed spin	Α			
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	Α			
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	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
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	Α	Stable flight	Α
22. Alternative means of directional control	<b>A</b>			
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

Route du Pré-au-Comte 8 \* CH-1844 Villeneuve \* +41 (0)21 965 65 65

Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes





Classification: **B** 

In accordance with standards EN 926-1:2015, EN 926-2:2013 and NfL 2-565-20:

Date of issue (DMY):

Manufacturer:

Model:

Serial number:

PG\_1810.2021

02.06.2021

Sky Paragliders a.s.

Kudos 2 XS

2351-11-0599

## Configuration during flight tests

Paraglider		Accessories	
Maximum weight in flight (kg)	75	Range of speed system (cm)	12
Minimum weight in flight (kg)	55	Speed range using brakes (km/h)	13
Glider's weight (kg)	4.1	Total speed range with accessories (km/h)	24
Number of risers	3	Range of trimmers (cm)	0
Projected area (m2)	19.36		
Harness used for testing (max weight)		Inspections (whichever happens first)	
Harness type	ABS	every 12 months or every 100 flying hours	
Harness brand	Flugsau	Warning! Before use refer to user's manual	
Harness model	XX-Lite	Person or company having presented the glider for testing: <b>None</b>	
Harness to risers distance (cm)	40		
Distance between risers (cm)	40		

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



9					
Manufacturer	Sky Paragliders a.s.	Certification number	F	PG_1811.2021	
Address	Okruzní 39	Flight test	0	6.02.2018	
	73911 Frýdlant nad				
	Ostravicí Czech Republic				
Glider model	Kudos 2 S	Classification	Е	3	
Serial number	2261-11-1512	Representative		lone	
Trimmer	no	Place of test	٧	/illeneuve	
Folding lines used	no				
Test pilot		Philippe Dupont	C	Claude Thurnheer	
Harness		Supair - Altiplume S	S	Supair - Altiplume M	
Harness to risers d	listance (cm)	44	4	4	
Distance between i	, ,	40	4	4	
Total weight in flight	` '	64	8		
. otal molgiit iii iligi	(ng)	<b>V</b> 1	J	· 1	
1. Inflation/Take-off		<b>A</b>			
Rising behaviour		Smooth, easy and constant rising	A	Smooth, easy and constant rising	Α
Special take off technique	e required	No	Α	No	Α
2. Landing		<b>A</b>			
Special landing technique		No	Α	No	Α
3. Speed in straight flight		В		V	
Trim speed more than 30		Yes	A	Yes	A
	ontrols larger than 10 km/h	Yes	Α	Yes	A B
Minimum speed 4. Control movement		Less than 25 km/h	Α	25 km/h to 30 km/h	Б
Max. weight in flight up	to 80 kg	A			
Symmetric control pressu		Increasing / greater than 55 cm	Α	not available	0
Max. weight in flight 80		mercasing / greater than 55 cm		not available	Ü
Symmetric control pressu		not available	0	Increasing / greater than 60 cm	Α
Max. weight in flight gre				meredenig / greater than ee em	
Symmetric control pressu		not available	0	not available	0
5. Pitch stability exiting		A			
Dive forward angle on exi		Dive forward less than 30°	Α	Dive forward less than 30°	Α
Collapse occurs		No		No	Α
6. Pitch stability operati	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	A			
Tendency to return to stra	aight flight	Spontaneous exit	Α	Spontaneous exit	Α
9. Behaviour exiting a fu	ully developed spiral dive	Α			
Initial response of glider (	first 180°)	Immediate reduction of rate of turn	Α	Immediate reduction of rate of turn	Α
Tendency to return to stra	aight 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	Less than 720°, spontaneous recovery	Α	Less than 720°, spontaneous recovery	Α
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 antonia and in large than 0 a	
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	В			
Dive forward angle on exit	Dive forward 30° to 60°	В	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	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	
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 0° to 15°	Α	Less than 90° / Dive or roll angle 15° to 45°	Α
	0 10 15		15 (0.45	

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	A
Folding lines used	No	,,	No	, ,
Large asymmetric collapse with fully activated accelerator	110		110	
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	A			
collapse				
Able to keep course	Yes	Α.	Yes	A
180° turn away from the collapsed side possible in 10 s	Yes	Α.	Yes	A
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		۸	No	٨
Spin occurs  17. Low speed spin tendency	No A	Α	No	Α
Spin occurs	No	Δ	No	Α
18. Recovery from a developed spin	A		NO	^
Spin rotation angle after release	Stops spinning in less than 90°	Α	Stops spinning in less than 90°	Α
Cascade occurs	No	Α	No	A
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	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	Α			
Procedure works as described	Yes	Α	not available	0
Procedure suitable for novice pilots	Vaa	Λ	not available	^
Cascade occurs	Yes No	Α	not available	0

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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes





Classification: **B** 

In accordance with standards EN 926-1:2015, EN 926-2:2013 and NfL 2-565-20:

Date of issue (DMY):

Manufacturer:

Model:

Serial number:

PG\_1811.2021

02.06.2021

Sky Paragliders a.s.

Kudos 2 S

2261-11-1512

## Configuration during flight tests

Paraglider		Accessories	
Maximum weight in flight (kg)	81	Range of speed system (cm)	13
Minimum weight in flight (kg)	64	Speed range using brakes (km/h)	13
Glider's weight (kg)	4.3	Total speed range with accessories (km/h)	24
Number of risers	3	Range of trimmers (cm)	0
Projected area (m2)	20.68		
Harness used for testing (max weight)		Inspections (whichever happens first)	
Harness type	ABS	every 12 months or every 100 flying hours	
Harness brand	Supair	Warning! Before use refer to user's manual	
Harness model	Altiplume	Person or company having presented the	
	M	glider for testing: None	
Harness to risers distance (cm)	44		
Distance between risers (cm)	44		

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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Manufacturer	Sky Paragliders a.s.	Certification number	F	PG_1812.2021	
Address	Okruzní 39 73911 Frýdlant nad Ostravicí Czech Republic	Flight test	1	6.02.2021	
Glider model	Kudos 2 M	Classification	Е	•	
Serial number	2259-11-1360	Representative		lone	
Trimmer	no	Place of test	٧	'illeneuve	
Folding lines used	no				
Test pilot		Claude Thurnheer	Δ	lexandre Jofresa	
Harness		Flugsau - X-Light M	S	Supair - Altiplume M	
Harness to risers di	istance (cm)	40	4	4	
Distance between r	, ,	40	4	4	
Total weight in fligh	` '	74	-	4	
Total weight in high	it (kg)	7 4	3	7	
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		<b>A</b>			
Special landing technique		No	Α	No	Α
3. Speed in straight fligh		<b>A</b>			
Trim speed more than 30		Yes	A	Yes	A
Speed range using the co	introis 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	40 90 km	A			
Max. weight in flight up to Symmetric control pressure		Increasing / greater than 55 cm	Α	not available	0
Max. weight in flight 80 k		increasing / greater than 55 cm	^	not available	U
Symmetric control pressur		not available	0	Increasing / greater than 60 cm	Α
Max. weight in flight grea		not available	U	moreasing / greater than oo em	
Symmetric control pressur		not available	0	not available	0
5. Pitch stability exiting		A		not available	Ū
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 dam	ping	A			
Oscillations		Reducing	Α	Reducing	Α
8. Stability in gentle spir	als	Α			
Tendency to return to stra	ight flight	Spontaneous exit	Α	Spontaneous exit	Α
9. Behaviour exiting a fu	ılly developed spiral dive	Α			
Initial response of glider (f	first 180°)	Immediate reduction of rate of turn	Α	Immediate reduction of rate of turn	Α
Tendency to return to stra	ight 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 norr	mal flight	Less than 720°, spontaneous recovery	Α	Less than 720°, spontaneous recovery	Α
10. Symmetric front colla	•	Α			
Approximately 30 % cho	ord				
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 less than 3 s   A   Spontaneous in less than 3 s   A   Classed and socurs   A   No	At least 50% chord				
Recovery   Spontaneous in less than 3 s   A   Spontaneous in less than 3 s   A   Classed and socurs   A   No	Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Dive forward angle on exit / Change of course	•	•	Α	•	Α
Folding lines used   No   No   No   With accelerator	•	Dive forward 0° to 30° / Keeping		Dive forward 0° to 30° / Keeping	
Politic   Poli	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 Collapse Cascade occurs No Collapse Course Cascade occurs No No Collapse Course Cascade occurs No Collapse Course Cascade occurs No Collapse Course Course Course Collapse Course Course Collapse Course No Collapse Course Collapse Course Collapse Course Course Collapse Course No Collapse Course Course Collapse Course Course Collapse Course Course Collapse Collapse Collapse Course Collapse C	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 Collapse Cascade occurs No Collapse Course Cascade occurs No No Collapse Course Cascade occurs No Collapse Course Cascade occurs No Collapse Course Course Course Collapse Course Course Collapse Course No Collapse Course Collapse Course Collapse Course Course Collapse Course No Collapse Course Course Collapse Course Course Collapse Course Course Collapse Collapse Collapse Course Collapse C	Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Dive forward angle on exit / Change of course	•	•	Α	<u>.</u>	Α
Policy fines used	•	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		-		NO	
Recovery   No forward angle on exist   Dive forward 0° to 30°   A   Dive f	,			W	
Dive forward angle on exit   Dive forward 0" to 30"   A Change of course   Changing course less than 45"   A Changing course less than 3 s					
Change of course No					
Cascade occurs	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   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 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 Most lines tight A Less than 45° A No (or only a small number of collapsed cells with a spontaneous reinflation A No	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   Less than 45°   A   Line tension   A   Less than 45°   A   Line tension   A   Most lines tight   A   Less than 45°   A   Line tension   A   Less than 45°   A   Le	13. Recovery from a developed full stall	A			
Collapse Occurs (other than collapses) No collapse A No collapse A Rocking back Less than 45° A Most lines tight	Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Cascade occurs (other than collapses)   No   Less than 45°   A		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					
Small asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle of to 15° Re-inflation behaviour Spontaneous re-inflation 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 (or only a small number of collapsed cells with a spontaneous re-inflation) Twist occurs No N					
Small asymmetric collapse         Change of course until re-inflation / Maximum dive forward or roll angle of langle       Less than 90° / Dive or roll angle of to 15°       A Less than 90° / Dive or roll angle of to 15°       A Spontaneous re-inflation       A Spontaneous re-inflation       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 and the spontaneous re-inflation a			, ,	Woot med agric	, ,
Change of course until re-inflation / Maximum dive forward or roll angle 0° to 15°	·	В			
roll angle Re-inflation behaviour 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 re-inflation)  Twist occurs No Cascade occurs No No A No A No Cascade occurs No Charge asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Spontaneous re-inflation A Collapse on the opposite side occurs No Collapse on the opposite side occurs No Collapse on the opposite side occurs No Corroll angle No Corroll angle No Corroll angle No Cascade occurs No Cascade o	•	Lasa da sa con / Disas annellas als		Land the cook / Division and Lands	
Total change of course  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  Cascade occurs  No  No  A  No  A  No  Cascade occurs  No  No  A  Folding lines used  Change of course until re-inflation / Maximum dive forward or roll angle of course  Collapse on the opposite side occurs  No  Total change of course  Collapse on the opposite side occurs  No  No  Collapse or course  Collapse on the opposite side occurs  No  No  Collapse on the opposite side occurs  No  No  No  Cor only a small number of collapse  Total change of course  Collapse on the opposite side occurs  No  No  No  No  No  No  No  Cor only a small number of collapse dells with a spontaneous re-inflation  No  No  No  No  No  No  Cor only a small number of collapse dells with a spontaneous re-inflation  No  No  No  Collapsed cells with a spontaneous re-inflation  No  No  Collapsed cells with a spontaneous re-inflation  No  No  Collapsed cells with a spontaneous re-inflation  A  No  Collapsed cells with a spontaneous re-inflation  A  No  Cor only a small number of collapsed cells with a spontaneous re-inflation)  No  Collapsed cells with a spontaneous re-inflation  No  No  Collapsed cells with a spontaneous re-inflation  A  No  Cor only a small number of collapsed cells with a spontaneous re-inflation)  No  No  Collapsed cells with a spontaneous re-inflation  A  No  No  No  Collapsed cells with a spontaneous re-inflation  A  No  Cor only a small number of collapsed cells with a spontaneous re-inflation)  A  No  Cor only a small number of collapsed cells with a spontaneous re-inflation  A  No  Cor only a small number of collapsed cells with a spontaneous re-inflation  A  No  Cor only a small number of collapsed cells with a spontaneous re-inflation  A  No  Cor only a small number of collapsed cells with a spontaneous re-inflation  No  No  No  No  Cor only a small number of collapsed cells with a spontaneous re-inflation  No  No  No  No	roll angle	0° to 15°		0° to 15°	
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		•		'	
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 15° to 45° Re-inflation behaviour Spontaneous re-inflation A Spontaneous re-inflation A Spontaneous re-inflation A Collapse on the opposite side occurs A No (or only a small number of collapsed cells with a spontaneous re-inflation)  Twist occurs No Cascade occurs No No No A No	Twist occurs	No	Α	No	Α
Large asymmetric collapse         Change of course until re-inflation / Maximum dive forward or roll angle angle       90° to 180° / Dive or roll angle 15° to 45°       B 90° to 180° / Dive or roll angle 15° to 45°       B 15° to 45°         Re-inflation behaviour       Spontaneous re-inflation       A Spontaneous re-inflation       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 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)         Twist occurs       No       A No       A No       A No         Cascade occurs       No       No       No         Folding lines used       No       No       No         Small asymmetric collapse with fully activated accelerator roll angle of course until re-inflation / Maximum dive forward or roll angle of to 15°       A Less than 90° / Dive or roll angle of to 15°       A Less than 90° / Dive or	Cascade occurs	No	Α	No	Α
Change of course until re-inflation / Maximum dive forward or roll angle roll	Folding lines used	No		No	
roll angle  Re-inflation behaviour  Total change of course  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  No  No  A  No  No  A  No  No	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  No  Less than 360°  A  Less than 360°  A  No  No  A  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  O° to 15°  A  Less than 90° / Dive or roll angle  O° to 15°	• .		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  O° to 15°  A  No (or only a small number of collapsed cells with a spontaneous reinflation)  A  No  Small asymmetric collapse with fully activated accelerator  Change of course until re-inflation / Maximum dive forward or roll angle o° to 15°	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  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  A  Less than 90° / Dive or roll angle  O° to 15°  A  Collapsed cells with a spontaneous reinflation)  A  No  A  No  A  Less than 90° / Dive or roll angle O° to 15°	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  Change of course until re-inflation / Maximum dive forward or roll angle  No  Less than 90° / Dive or roll angle  O° to 15°  A Less than 90° / Dive or roll angle O° to 15°	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  O° to 15°  No  Less than 90° / Dive or roll angle O° to 15°  A Less than 90° / Dive or roll angle O° to 15°	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  O° to 15°  No  Less than 90° / Dive or roll angle O° to 15°  A Less than 90° / Dive or roll angle O° to 15°	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  O° to 15°  A Less than 90° / Dive or roll angle O° to 15°	Folding lines used	No		No	
Change of course until re-inflation / Maximum dive forward or roll angle	-	-		-	
3.4.4	Change of course until re-inflation / Maximum dive forward or		Α		Α
	•	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	90° to 180° / Dive or roll angle	В	90° to 180° / Dive or roll angle	В
roll angle	15° to 45°	_	15° to 45°	
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	A			
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	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	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
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

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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes





Classification: **B** 

In accordance with standards EN 926-1:2015, EN 926-2:2013 and NfL 2-565-20:

Date of issue (DMY):

Manufacturer:

Model:

Serial number:

PG\_1812.2021

02.06.2021

Sky Paragliders a.s.

Kudos 2 M

2560-11-1268

## Configuration during flight tests

Paraglider		Accessories	
Maximum weight in flight (kg)	94	Range of speed system (cm)	13
Minimum weight in flight (kg)	74	Speed range using brakes (km/h)	13
Glider's weight (kg)	4.4	Total speed range with accessories (km/h)	24
Number of risers	3	Range of trimmers (cm)	0
Projected area (m2)	22.09		
Harness used for testing (max weight)		Inspections (whichever happens first)	
Harness type	ABS	every 12 months or every 100 flying hours	
Harness brand	Supair	Warning! Before use refer to user's manual	
Harness model	Altiplume M	Person or company having presented the glider for testing: <b>None</b>	
Harness to risers distance (cm)	44		
Distance between risers (cm)	44		

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

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Manufacturer Sky Paragliders a.s.		Certification number	F	PG_1813.2021	
Address	Okruzní 39 73911 Frýdlant nad Ostravicí	Flight test	2	20.12.2017	
Glider model	Czech Republic Kudos 2 L	Classification	Е	2	
Serial number	2261-11-1511	Representative		lone	
Trimmer	no	Place of test	V	/illeneuve	
Folding lines used	no				
Test pilot		Claude Thurnheer	Þ	Alain Zoller	
Harness		Niviuk Gliders - Hamak M	Niviuk Gliders - Hamak M Gin Gliders - Gingo 2		
Harness to risers d	listance (cm)	42	4	3	
Distance between i	• •	44	4	-6	
Total weight in flight	, ,	85		08	
1. Inflation/Take-off		A			
Rising behaviour		Smooth, easy and constant rising	Α	Smooth, easy and constant rising	Α
Special take off technique	e required	No	Α	No	Α
2. Landing	4	A			
Special landing technique	e required	No	Α	No	Α
3. Speed in straight flight		В			
Trim speed more than 30		Yes	Α	Yes	Α
	ontrols larger than 10 km/h	Yes	Α	Yes	Α
Minimum speed		Less than 25 km/h	Α	25 km/h to 30 km/h	В
4. Control movement		A			
Max. weight in flight up	to 80 kg				
Symmetric control pressu		not available	0	not available	0
Max. weight in flight 80	kg to 100 kg				
Symmetric control pressu	ıre / travel	Increasing / greater than 60 cm	Α	not available	0
Max. weight in flight gre	eater than 100 kg				
Symmetric control pressu	ire / travel	not available	0	Increasing / greater than 65 cm	Α
5. Pitch stability exiting	accelerated flight	A			
Dive forward angle on exi	it	Dive forward less than 30°	Α	Dive forward less than 30°	Α
Collapse occurs		No	Α	No	Α
6. Pitch stability operati flight	ing controls during accelerated	Α			
Collapse occurs		No	Α	No	Α
7. Roll stability and dam	nping	A			
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 fu	ully developed spiral dive	A			
Initial response of glider (	first 180°)	Immediate reduction of rate of turn	Α	Immediate reduction of rate of turn	Α
Tendency to return to stra	aight 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	Less than 720°, spontaneous recovery	Α	Less than 720°, spontaneous recovery	Α
10. Symmetric front coll	lapse	A			
Approximately 30 % cho	•	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 source				
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	110		110	
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	A
Recovery	·		•	
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)	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		No	Α
12. High angle of attack recovery	A	, ,	110	7.
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	A			
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
	В		ee ag	* *
14. Asymmetric collapse				
14. Asymmetric collapse Small asymmetric collapse				
Small asymmetric collapse	Less than 90° / Dive or roll angle	Α	Less than 90° / Dive or roll angle	Α
Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle	0° to 15°		Less than 90° / Dive or roll angle 0° to 15°	A
Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour	0° to 15° Spontaneous re-inflation	Α	0° to 15° Spontaneous re-inflation	A A
Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course	0° to 15° Spontaneous re-inflation Less than 360°	A A	0° to 15° Spontaneous re-inflation Less than 360°	Α
Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour	0° to 15° Spontaneous re-inflation	Α	0° to 15° Spontaneous re-inflation	
Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course	0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous	A A	0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous	Α
Small 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	0° to 15°  Spontaneous re-inflation  Less than 360°  No (or only a small number of collapsed cells with a spontaneous reinflation)	A A A	0° to 15°  Spontaneous re-inflation  Less than 360°  No (or only a small number of collapsed cells with a spontaneous reinflation)	A A
Small 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  Twist occurs	0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No	A A A	0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No	A A
Small 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  Twist occurs Cascade occurs	0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No	A A A	0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No	A A
Small 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  Twist occurs Cascade occurs Folding lines used	0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No	A A A	0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No	A A
Small 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  Twist occurs Cascade occurs Folding lines used Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or	0° to 15°  Spontaneous re-inflation  Less than 360°  No (or only a small number of collapsed cells with a spontaneous reinflation)  No  No  No  90° to 180° / Dive or roll angle	A A A	0° to 15°  Spontaneous re-inflation  Less than 360°  No (or only a small number of collapsed cells with a spontaneous reinflation)  No  No  No  90° to 180° / Dive or roll angle	A A A
Small 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  Twist occurs Cascade occurs Folding lines used Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle	0° to 15°  Spontaneous re-inflation  Less than 360°  No (or only a small number of collapsed cells with a spontaneous reinflation)  No  No  No  90° to 180° / Dive or roll angle 15° to 45°	A A A A	0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No 90° to 180° / Dive or roll angle 15° to 45°	A A A B
Small 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  Twist occurs Cascade occurs Folding lines used Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour	0° to 15°  Spontaneous re-inflation  Less than 360°  No (or only a small number of collapsed cells with a spontaneous reinflation)  No  No  No  90° to 180° / Dive or roll angle 15° to 45°  Spontaneous re-inflation	A A A A B	0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No 90° to 180° / Dive or roll angle 15° to 45° Spontaneous re-inflation	A A A B
Small 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  Twist occurs 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	0° to 15°  Spontaneous re-inflation  Less than 360°  No (or only a small number of collapsed cells with a spontaneous reinflation)  No  No  No  90° to 180° / Dive or roll angle 15° to 45°  Spontaneous re-inflation  Less than 360°  No (or only a small number of collapsed cells with a spontaneous reinflation)	A A A B A A	0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No 90° to 180° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation)	A A A B A
Small 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  Twist occurs 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  Twist occurs	0° to 15°  Spontaneous re-inflation  Less than 360°  No (or only a small number of collapsed cells with a spontaneous reinflation)  No  No  No  90° to 180° / Dive or roll angle 15° to 45°  Spontaneous re-inflation  Less than 360°  No (or only a small number of collapsed cells with a spontaneous reinflation)  No	A A A B A A	0° to 15°  Spontaneous re-inflation  Less than 360°  No (or only a small number of collapsed cells with a spontaneous reinflation)  No  No  No  90° to 180° / Dive or roll angle 15° to 45°  Spontaneous re-inflation  Less than 360°  No (or only a small number of collapsed cells with a spontaneous reinflation)  No	A A A B A A
Small 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  Twist occurs 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  Twist occurs Cascade occurs  Twist occurs Cascade occurs	0° to 15°  Spontaneous re-inflation Less than 360°  No (or only a small number of collapsed cells with a spontaneous reinflation)  No  No  No  90° to 180° / Dive or roll angle 15° to 45°  Spontaneous re-inflation Less than 360°  No (or only a small number of collapsed cells with a spontaneous reinflation)  No  No	A A A B A A	0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No 90° to 180° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No	A A A B A A A .
Small 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  Twist occurs 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  Twist occurs Cascade occurs Folding lines used	0° to 15°  Spontaneous re-inflation  Less than 360°  No (or only a small number of collapsed cells with a spontaneous reinflation)  No  No  No  90° to 180° / Dive or roll angle 15° to 45°  Spontaneous re-inflation  Less than 360°  No (or only a small number of collapsed cells with a spontaneous reinflation)  No  No  No  No	A A A B A A	0° to 15°  Spontaneous re-inflation  Less than 360°  No (or only a small number of collapsed cells with a spontaneous reinflation)  No  No  No  90° to 180° / Dive or roll angle 15° to 45°  Spontaneous re-inflation  Less than 360°  No (or only a small number of collapsed cells with a spontaneous reinflation)  No	A A A B A A
Small 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  Twist occurs 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  Twist occurs Cascade occurs Folding lines used Small asymmetric collapse with fully activated accelerator	0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No No 90° to 180° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No	A A A A A A	0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No Oo  90° to 180° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No No	A A A A A A
Small 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  Twist occurs 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  Twist occurs Cascade occurs Folding lines used Small asymmetric collapse with fully activated accelerator Change of course until re-inflation / Maximum dive forward or roll angle	0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No No 90° to 180° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No No Less than 90° / Dive or roll angle 15° to 45°	A A A A A A	0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No No 90° to 180° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No No Less than 90° / Dive or roll angle 15° to 45°	A A A B A A
Small 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  Twist occurs 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  Twist occurs Cascade occurs Folding lines used Small asymmetric collapse with fully activated accelerator Change of course until re-inflation / Maximum dive forward or	0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No No 90° to 180° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No No Less than 90° / Dive or roll angle	A A A A A A	0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No No Oo  90° to 180° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No No Less than 90° / Dive or roll angle	A A A A A A

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	$90^{\circ}$ to $180^{\circ}$ / Dive or roll angle $15^{\circ}$ to $45^{\circ}$	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 collapse	A			
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	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

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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes





Classification: **B** 

In accordance with standards EN 926-1:2015, EN 926-2:2013 and NfL 2-565-20: PG\_1813.2021

Date of issue (DMY): 02.06.2021

Manufacturer: Sky Paragliders a.s.

Model: Kudos 2 L

Serial number: 2261-11-1511

## Configuration during flight tests

Paraglider		Accessories	
Maximum weight in flight (kg)	108	Range of speed system (cm)	13
Minimum weight in flight (kg)	85	Speed range using brakes (km/h)	13
Glider's weight (kg)	4.5	Total speed range with accessories (km/h)	24
Number of risers	3	Range of trimmers (cm)	0
Projected area (m2)	23.59		
Harness used for testing (max weight)		Inspections (whichever happens first)	
Harness type	ABS	every 12 months or every 100 flying hours	
Harness brand	Gin Gliders	Warning! Before use refer to user's manual	
Harness model	Gingo 2 L	Person or company having presented the glider for testing: <b>None</b>	
Harness to risers distance (cm)	43		
Distance between risers (cm)	46		

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Manufacturer	Sky Paragliders a.s.	Certification number	F	G_1814.2021	
Address	Okruzní 39 73911 Frýdlant nad Ostravicí	Flight test	1	9.04.2018	
Olidar madal	Czech Republic	Classification	-	•	
Glider model	Kudos 2 XL	Classification	E		
Serial number	2261-11-1510	Representative	N	lone	
Trimmer	no	Place of test	V	'illeneuve	
Folding lines used	no				
Test pilot		Alain Zoller	Δ	nselm Rauh	
Harness		Gin Gliders - Gingo 2 L	Α	Ava Sport - Acro 1 L	
Harness to risers di	istance (cm)	43	4	8	
Distance between r	` '	44	4	8	
	` ,				
Total weight in fligh	it (kg)	99	ı	25	
1. Inflation/Take-off		A			
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		Α			
Special landing technique	required	No	Α	No	Α
3. Speed in straight fligh		Α			
Trim speed more than 30	km/h	Yes	Α	Yes	Α
Speed range using the con	ntrols larger than 10 km/h	Yes	Α	Yes	Α
Minimum speed		Less than 25 km/h	Α	Less than 25 km/h	Α
4. Control movement		Α			
Max. weight in flight up t	to 80 kg				
Symmetric control pressur	re / travel	not available	0	not available	0
Max. weight in flight 80 k	rg to 100 kg				
Symmetric control pressur	re / travel	Increasing / greater than 60 cm	Α	not available	0
Max. weight in flight great	ater than 100 kg				
Symmetric control pressur		not available	0	Increasing / greater than 65 cm	Α
5. Pitch stability exiting		A			
Dive forward angle on exit		Dive forward less than 30°		Dive forward less than 30°	Α
Collapse occurs		No	Α	No	Α
6. Pitch stability operatir flight	ng controls during accelerated	A			
Collapse occurs		No	Α	No	Α
7. Roll stability and dam	ping	Α			
Oscillations		Reducing	Α	Reducing	Α
8. Stability in gentle spir	als	Α			
Tendency to return to stra	ight flight	Spontaneous exit	Α	Spontaneous exit	Α
	lly developed spiral dive	Α			
Initial response of glider (f		Immediate reduction of rate of turn	Α	Immediate reduction of rate of turn	Α
Tendency to return to stra	ight 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 norr	nal flight	Less than 720°, spontaneous recovery	Α	Less than 720°, spontaneous recovery	Α
10. Symmetric front colla	apse	A			
Approximately 30 % cho	rd				
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	Δ
				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
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 0° to 30°	Α	Dive forward 30° to 60°	В
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 15° to 45°	Α	180° to 360° / 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	Α	No (or only a small number of	Α
conspect on the appearance state country	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	
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	
	110		140	
Small asymmetric collapse with fully activated accelerator Change of course until re-inflation / Maximum dive forward or				
	Less than 90° / Dive or roll angle 15° to 45°	Α	Less than 90° / Dive or roll angle 15° to 45°	Α
roll angle  Re-inflation behaviour	Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation	A A	Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation	A A

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 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	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	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	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	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
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
				_

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PG\_1814.2021

Sky Paragliders a.s.

02.06.2021

Kudos 2 XL

2261-11-1510

Classification: **B** 

In accordance with standards EN 926-1:2015, EN 926-2:2013 and NfL 2-565-20:

Date of issue (DMY):

Manufacturer:

Model: Serial number:

Configuration during flight tests

Paraglider		Accessories	
Maximum weight in flight (kg)	125	Range of speed system (cm)	13.5
Minimum weight in flight (kg)	99	Speed range using brakes (km/h)	13
Glider's weight (kg)	4.7	Total speed range with accessories (km/h)	24
Number of risers	3	Range of trimmers (cm)	0
Projected area (m2)	25.2		
Harness used for testing (max weight)		Inspections (whichever happens first)	
Harness type	ABS	every 12 months or every 100 flying hours	
Harness brand	Ava Sport	Warning! Before use refer to user's manual	
Harness model	Acro 1 L	Person or company having presented the glider for testing: <b>None</b>	
Harness to risers distance (cm)	48		
Distance between risers (cm)	48		

12 13 14 19 20 21 22 23