## Flight test report

Manufacturer Sky Paragliders Address Okružní 39

73911 Frýdlant nad Ostravicí

Czech Republic

Representive None Type of glider Antea S not available Trimmer

PG 056.2007 Certification number Date of flight test 19/04/2007 Villeneuve Place of test



## Classification C

Claude Thurnheer Sky revers 80 kg Test Pilot Seiko Fukuoka Harness sup air light Total weight in flight 60 kg

		Min weight	Max weight	
1. Inflation/Tal		min weight	max weight	
	Rising behaviour Special take off technique required	Smooth, easy and constant rising A No A	Smooth, easy and constant rising No	A A
2. Landing				
3. Speed in str	Special landing technique required	No A	No	Α
	Trim speed more than 30 km/h	Yes A	Yes	Α
	Speed range using the controls larger than 10 km/h	Yes A	Yes	Α
	Minimum speed	Less than 25 km/h A	Less than 25 km/h	Α
4. Control mov	/ement Max. weight in flight up to 80 kg			
	Symmetric control pressure/travel	Increasing, Greater than 55 cm A	not available	0
	Max. weight in flight 80 kg to 100 kg	<b>.</b>		
	Symmetric control pressure/travel	not available 0	Increasing, Greater than 55 cm	Α
	Max. weight in flight greater than 100 kg Symmetric control pressure/travel	not available 0	not available	0
5. Pitch stabili	ty exiting accelerated flight			
	Dive forward angle on exit	Dive forward less than 30° A	Dive forward less than 30°	Α
6 Ditch stabili	Collapse occurs ty operating controls during accelerated flight	No A	No	Α
o. i iton stabili	Collapse occurs	No A	No	Α
7. Roll stability	y and damping			
8. Stability in g	Oscillations	Reducing A	Reducing	Α
o. Stability III (	Tendency to return to straight flight	Spontaneous exit A	Spontaneous exit	Α
9. Behaviour in	n a steeply banked turn			
40. 0	Sink rate after two turns	More than 14 m/s	More than 14 m/s	В
10. Symmetric	front collapse Entry	Rocking back less than 45° A	Rocking back less than 45°	Α
	Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s	Α
	Dive forward angle on exit	Dive foward 0°to 30°, Keeping course A	Dive foward 0°to 30°, Keeping course	Α
	Cascade occurs With accelerator	No A	No	Α
	Entry	Rocking back less than 45° A	Rocking back less than 45°	Α
	Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s	Α
	Dive forward angle on exit	Dive foward 0°to 30°, Keeping course A	Dive foward 0°to 30°, Keeping course	Α
11. Exiting dec	Cascade occurs  pp stall (parachutal stall)	No A	No	Α
	Deep stall achieved	Yes A	Yes	Α
	Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s	Α
	Dive forward angle on exit Change of course	Dive forward 30°to 60° B Changing course less than 45° A	Dive forward 0°to 30° Changing course less than 45°	A A
	Cascade occurs	No A	No	A
12. High angle	of attack recovery			
	Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s	A
13. Recovery f	Cascade occurs	No A	No	Α
	Dive forward angle on exit	Dive forward 30°to 60°	Dive forward 30°to 60°	В
	Collapse	No collapse A	No collapse	Α
	Cascade occurs (other than collapse) Rocking back	No A Less than 45° A	No Less than 45°	A A
	Line tension	Most line tight A	Most line tight	A
14. Asymmetri				
	With 50% collapse-Maximum dive forward or roll angle Change of course until re-inflation	Less than 90°, Dive or roll angle 15° to 45° A	Less than 90°, Dive or roll angle 15° to 45°	Α
	Re-inflation behaviour	Spontaneous re-inflation A	Spontaneous re-inflation	A
	Total change of course	Less than 360° A	Less than 360°	Α
	Collapse on the opposite side occurs	No A	No No	A
	Twist occurs Cascade occurs	No A No A	No No	A A
	With 75% collapse-Maximum dive forward or roll angle			
	Change of course until re-inflation	Less than 90°, Dive or roll angle 45° to 60° C		C
	Re-inflation behaviour Total change of course	Spontaneous re-inflation A Less than 360° A	Spontaneous re-inflation Less than 360°	A A
	Collapse on the opposite side occurs	No A	No No	A
	Twist occurs	No A	No	Α
	Cascade occurs With 50% collapse and accelerator-Maximum dive forward or	No A	No	Α
	Change of course until re-inflation	Less than 90°, Dive or roll angle 15° to 45°  A	Less than 90°, Dive or roll angle 15° to 45°	Α
	Re-inflation behaviour	Spontaneous re-inflation A	Spontaneous re-inflation	Α
	Total change of course	Less than 360° A	Less than 360°	A
	Collapse on the opposite side occurs	No A	No	Α

	Twist occurs	No	۸	No	Λ
	Cascade occurs	No.	A	No	A A
	With 75% collapse and accelerator-Maximum dive forward o		А	NO	А
		90° to 180°, Dive or roll angle 60° to 90°	С	90° to 180°, Dive or roll angle 45° to 60°	С
	Change of course until re-inflation  Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	
		•		· ·	A
	Total change of course	Less than 360°	Α	Less than 360°	A
	Collapse on the opposite side occurs	No	A	No	A
	Twist occurs	No	Α	No	A
	Cascade occurs	No	Α	No	Α
15. Direction	al control with a maintained asymmetric collapse			V.	
	Able to keep course	Yes	Α	Yes	A
	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 spec	ed spin tendency				
	Spin occurs	No	Α	No	Α
17. Low spee	d spin tendency				
	Spin occurs	No	Α	No	Α
18. Recovery	from a developed spin				
	Spin rotation angle after release	Stops spinning in less than 90°		Stops spinning in less than 90°	Α
	Cascade occurs	No	Α	No	Α
19. B-line sta					
	Change of course before release	Change of course less than 45°	Α	Change of 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					
	Entry procedure	Dedicated controls	Α	Standard technique	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 i	n accelerated flight				
•	Entry procedure	Dedicated controls	Α	Standard technique	Α
	Behaviour during big ears	Stable flight	Α	Stable flight	Α
	Recovery	Spontaneous in less than 3 s	Α	Recovery through pilot action in less than a futher	r B
	Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
	Behaviour immediately after releasing the accelerator while	Stable flight	Α	Stable flight	Α
22. Behaviou	r exiting a steep spiral	, and the second		, and the second	
	Tendency to return to straight flight	Spontaneous exit	Α	Spontaneous exit	Α
	Turn angle to recover normal flight	Less than 720°, spontaneous recovery	Α	Less than 720°, spontaneous recovery	Α
	Sink rate when evaluating spiral stability [m/s]	16 m/s		19 m/s	
23. Alternativ	re means of directional control				
	180° turn achievable in 20 s	Yes	Α	Yes	Α
	Stall or spin occurs	No	Α	No	Α
24. Any other	r flight procedure and/or configuration described in the us				- 1
	Procedure works as described	not available	0	not available	C
	Procedure suitable for novice pilots	not available	0	not available	(
					-
			ñ	not available	(
Comments of	Cascade occurs	not available	0	not available	C
Comments of	Cascade occurs		0	not available	C



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