Flight test report

Manufacturer Dudek Paragliders Address ul. Centralna 2U

86-031 Osielsko Poland

Representive none

Type of glider Synthesis 25 Closed trimmer Trimmer

PG 096.2007 Certification number Date of flight test 28/8/2007 Villeneuve Place of test



Classification C

Test Pilot Seiko Fukuoka Harness gin gingo III
Total weight in flight 70 kg

Claude Thurnheer Advance Progress M 44cm 95 kg

		Min weight	Max weight	
1. Inflation/Ta		wiii weigiit	max weight	
	Rising behaviour	Smooth, easy and constant rising A	Smooth, easy and constant rising	Α
0.1	Special take off technique required	No A	No	Α
2. Landing	Special landing technique required	No A	No	Α
3. Speed in st		,,	110	, ,
·	Trim speed more than 30 km/h	Yes	Yes	Α
	Speed range using the controls larger than 10 km/h	Yes		Α
4. Control mo	Minimum speed	Less than 25 km/h A	25 km/h to 30 km/h	В
4. Control ino	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			
	Symmetric control pressure/travel Max. weight in flight greater than 100 kg	not available (Increasing, Greater than 60 cm	Α
	Symmetric control pressure/travel	not available (not available	0
5. Pitch stabil	ity exiting accelerated flight			
	Dive forward angle on exit	Dive forward less than 30° A		Α
6 Pitch stahil	Collapse occurs ity operating controls during accelerated flight	No A	No	Α
or r rion orabin	Collapse occurs	No A	No	Α
7. Roll stabilit	y and damping			
9 Stability in	Oscillations	Reducing A	Reducing	Α
8. Stability in	Tendency to return to straight flight	Spontaneous exit A	Spontaneous exit	Α
9. Behaviour i	n a steeply banked turn			
	Sink rate after two turns	More than 14 m/s	More than 14 m/s	В
10. Symmetric	c front collapse	Rocking back less than 45° A	Rocking back less than 45°	Α
	Entry Recovery	Spontaneous in less than 3 s	· · · · · · · · · · · · · · · · · · ·	A
	Dive forward angle on exit	Dive foward 0°to 30°, Keeping course A		Α
	Cascade occurs	No A	No	Α
	With accelerator	Rocking back less than 45° A	Rocking back less than 45°	Α
	Entry Recovery	Rocking back less than 45° A Spontaneous in less than 3 s A	3	A
	Dive forward angle on exit	Dive foward 0°to 30°, Entering a turn less than 90° A	The state of the s	Α
	Cascade occurs	No A	No	Α
11. Exiting de	ep stall (parachutal stall) Deep stall achieved	Yes A	Yes	Α
	Recovery	Spontaneous in less than 3 s		A
	Dive forward angle on exit	Dive forward 0°to 30° A		Α
	Change of course	Changing course less than 45° A	0 0	A
12 High angle	Cascade occurs of attack recovery	No A	No	Α
12. riigii urigic	Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s	Α
	Cascade occurs	No A	No	Α
13. Recovery	from a developed full stall	Dive femoral 09te 209	Dive femaled 20% CO%	ь
	Dive forward angle on exit Collapse	Dive forward 0°to 30° A No collapse A	Dive forward 30°to 60° No collapse	B A
	Cascade occurs (other than collapse)	No A		Α
	Rocking back	Less than 45° A		Α
14 Asymmetri	Line tension	Most line tight A	Most line tight	Α
14. Asymmetr	With 50% collapse-Maximum dive forward or roll angle			
	Change of course until re-inflation	90° to 180°, Dive or roll angle 15° to 45°	90° to 180°, Dive or roll angle 45° to 60°	С
	Re-inflation behaviour	Spontaneous re-inflation A	· ·	Α
	Total change of course	Less than 360° A No A		A A
	Collapse on the opposite side occurs Twist occurs	No A	No No	A
	Cascade occurs	No A		Α
	With 75% collapse-Maximum dive forward or roll angle	200 J 200 B: # 1 1	200 L 1000 Pt	
	Change of course until re-inflation Re-inflation behaviour	90° to 180°, Dive or roll angle 15° to 45° Spontaneous re-inflation A	90° to 180°, Dive or roll angle 60° to 90° Spontaneous re-inflation	C A
	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 A		A
	Cascade occurs With 50% collapse and accelerator-Maximum dive forward or	No A	No	Α
	Change of course until re-inflation	180° to 360°, Dive or roll angle 15° to 45°	90° to 180°, Dive or roll angle 45° to 60°	С
	Re-inflation behaviour	Spontaneous re-inflation A	Spontaneous re-inflation	Α
	Total change of course	Less than 360° A		Α
	Collapse on the opposite side occurs	No A	. No	Α

	Twist occurs	No		No	Α
	Cascade occurs	No	Α	No	Α
	With 75% collapse and accelerator-Maximum dive forward of				
	Change of course until re-inflation	180° to 360°, Dive or roll angle 45° to 60°	С	90° to 180°, Dive or roll angle 60° to 90°	С
	Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
	Total change of course	Less than 360°	Α	Less than 360°	Α
	Collapse on the opposite side occurs	No	Α	No	Α
	Twist occurs	No	Α	No	Α
	Cascade occurs	No	Α	No	Α
15. Direction	al control with a maintained asymmetric 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 spee	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°	Α	Stops spinning in less than 90°	Α
	Cascade occurs	No	Α	No	Α
19. B-line sta	II				
	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	Cascade Goodis		- / (110	- / \
Lo. Dig cars	Entry procedure	Dedicated controls	Α	Dedicated controls	Α
	Behaviour during big ears	Unstable flight	C	Stable flight	A
	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	A
	Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
21 Big care i	n accelerated flight	Diversitivate of to 50		Dive lorward 0 to 30	
ZI. Dig ears i	•	Dedicated controls	Α	Dedicated controls	Α
	Entry procedure		C		
	Behaviour during big ears	Unstable flight	В	Stable flight	A B
	Recovery	Recovery through pilot action in less than a		Recovery through pilot action in less than a	
	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	On and an array with		0	
	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]	18 m/s		25 m/s	
23. Alternativ	e 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	rflight procedure and/or configuration described in the us				
	Procedure works as described	Yes	Α	Yes	Α
	Procedure suitable for novice pilots	Yes	Α	Yes	Α
	Cascade occurs	No	Α	No	Α
Comments of	f test pilot				
	Comments	no		no	



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