Flight test report

Manufacturer Dudek Paragliders

Address ul. Lesna 5

89-200 Kowalewo k/Szubina

Poland
Representive none
Type of glider Nemo 23
Trimmer Net available

Certification number PG 017.2006
Date of flight test 07.11.2006
Place of test villeneuve



Classification B

 Test Pilot
 Seiko Fukuoka
 Claude Thurnheer

 Harness
 sky para reverse
 sup air light

 Total weight in flight
 57 kg
 80 kg

		Min weight	Max weight
1. Inflation/Tal		will weight	max weight
	Rising behaviour Special take off technique required	Smooth, easy and constant rising ANO A	Smooth, easy and constant rising A No A
2. Landing			
2 Enood in other	Special landing technique required	No A	No A
3. Speed in str	Trim speed more than 30 km/h	Yes	Yes A
	Speed range using the controls larger than 10 km/h	Yes	
	Minimum speed	Less than 25 km/h	7.7
4. Control mov			
	Max. weight in flight up to 80 kg		
	Symmetric control pressure/travel Max. weight in flight 80 kg to 100 kg	Increasing, Greater than 55 cm A	Increasing, Greater than 55 cm A
	Symmetric control pressure/travel	not available	not available 0
	Max. weight in flight greater than 100 kg	The dvallable	That dvallable
	Symmetric control pressure/travel	not available	not available 0
5. Pitch stabili	ty exiting accelerated flight		
	Dive forward angle on exit	Dive forward less than 30° A	
6 Pitch stabili	Collapse occurs ty operating controls during accelerated flight	No A	No A
or i non stabili	Collapse occurs	No A	No A
7. Roll stability	y and damping		
	Oscillations	Reducing A	Reducing A
8. Stability in g		Sanatanana avit	Sacrtanaeur auft
9. Robaviour i	Tendency to return to straight flight n a steeply banked turn	Spontaneous exit A	Spontaneous exit A
5. Bellaviour II	Sink rate after two turns	12 m/s to 14 m/s	More than 14 m/s B
10. Symmetric	front collapse		
	Entry	Rocking back less than 45° A	3
	Recovery	Spontaneous in less than 3 s	·
	Dive forward angle on exit Cascade occurs	Dive foward 0°to 30°, Entering a turn less than 90° A	
	With accelerator	NO A	No A
	Entry	Rocking back less than 45° A	Rocking back less than 45° A
	Recovery	Spontaneous in less than 3 s	
	Dive forward angle on exit	Dive foward 0°to 30°, Keeping course A	
44 Eulilian da	Cascade occurs	No A	No A
11. Exiting dec	ep stall (parachutal stall) Deep stall achieved	No A	Yes A
	Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
	Dive forward angle on exit	Dive forward 0°to 30°	·
	Change of course	Changing course less than 45° A	
	Cascade occurs	No A	No A
12. High angle	e of attack recovery Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
	Cascade occurs	No A	
13. Recovery f	from a developed full stall	,	
	Dive forward angle on exit	Dive forward 30°to 60°	
	Collapse	No collapse A	•
	Cascade occurs (other than collapse)	No A	
	Rocking back Line tension	Less than 45° A Most line tight A	
14. Asymmetri			
	With 50% collapse-Maximum dive forward or roll angle		
	Change of course until re-inflation	90° to 180°, Dive or roll angle 0° to 15°	
	Re-inflation behaviour Total change of course	Spontaneous re-inflation A Less than 360° A	
	Collapse on the opposite side occurs	Less than 360° A	
	Twist occurs		No A
	Cascade occurs	No A	
	With 75% collapse-Maximum dive forward or roll angle		
	Change of course until re-inflation	90° to 180°, Dive or roll angle 0° to 15° A Spontaneous re inflation	
	Re-inflation behaviour Total change of course	Spontaneous re-inflation A Less than 360° A	·
	Collapse on the opposite side occurs	No A	
	Twist occurs	No A	
	Cascade occurs	No A	
	With 50% collapse and accelerator-Maximum dive forward or		
	Change of course until re-inflation	90° to 180°, Dive or roll angle 0° to 15° A Spontaneous re inflation	
	Re-inflation behaviour Total change of course	Spontaneous re-inflation A Less than 360° A	·
	Collapse on the opposite side occurs	No A	

	Twist occurs	No		No	Α	
	Cascade occurs	No	Α	No	Α	
	With 75% collapse and accelerator-Maximum dive forward o					
	Change of course until re-inflation	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	Α	No	Α	
	Twist occurs	No	Α	No	Α	
	Cascade occurs	No	Α	No	Α	
15. Directiona	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	d 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	I					
	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 30° to 60°	Α	Dive forward 0° to 30°	Α	
	Cascade occurs	No.	Α	No.	Α	
20. Big ears	Caccaas Cocais		•			
	Entry procedure	Standard technique	Α	Standard technique	Α	
	Behaviour during big ears	Stable flight	Α	Stable flight	A	
	Recovery	Recovery through pilot action in less than a futher		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 ears in accelerated flight						
g ou. o	Entry procedure	Standard technique	Α	Standard technique	Α	
	Behaviour during big ears	Stable flight	Α	Stable flight	Α	
	Recovery	Recovery through pilot action in less than a futher		Spontaneous in 3 s to 5 s	Α	
	Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	Α	
	Behaviour immediately after releasing the accelerator while	2.10.10.112.110.1000	′`	2.70 .0.114.4 0 10 00	,,	
	maintaining big ears	Stable flight	Α	Stable flight	Α	
22 Rehaviou	r exiting a steep spiral	Otable hight	^	Otable hight		
LL. Bellaviou	Tendency to return to straight flight	Spontaneous exit	Α	Spontaneous exit	Α	
	Turn angle to recover normal flight	Less than 720°, spontaneous recovery	A	Less than 720°, spontaneous recovery	A	
	Sink rate when evaluating spiral stability [m/s]	15 m/s	^	17 m/s	^	
23 Alternativ	e means of directional control	10 11// 0		17 111/5		
25. Alternativ	180° turn achievable in 20 s	Yes	Α	Yes	Α	
	Stall or spin occurs	No.	A	No.	A	
24 Any other	flight procedure and/or configuration described in the us		А	INU	А	
24. Any other	Procedure works as described	not available	0			
	Procedure works as described Procedure suitable for novice pilots	not available not available	0	not available	0	
	Cascade occurs	not available	0	not available	0	
Comments of		nut avallable	U	TIUL available	U	
Comments of	•					
	Comments	no		no		



Air Turquoise
Rue de la Poterlaz 6
Case postale 10
CH- 1844 Villeneuve
Switzerland
mobile: +41 79 202 52 30
Tel. no: +41 21 965 65 65
fax: +41 219 65 65 66
email: info@airturquoise.ch
homepage: www.cen.li