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Flight test report



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Manufacturer	Dudek Paragliders S.J.	Certification number		PG_0174.2008	
Address	ul. Centralna 2U 86-031 Osielsko Polosod	Date of flight test		20. 08. 2008	
Representative	Poland None	Place of test		Villeneuve	
•					
Glider model	Plus 28	Classification		В	
Trimmer	no				
	Test pilot	Thurnheer Claude		Zoller Alain	
	Harness	Gin Gliders - Genie III M		Sup'Air - Access L	
	Total weight in flight (kg)			110	
1. Inflation/Take-off		A			
Rising behaviour		Smooth, easy and constant rising	А	Smooth, easy and constant rising	А
Special take off tech	nique required	No	А	No	А
2. Landing		Α			
Special landing tech	nique required	No	А	No	А
3. Speed in straight	t flight	Α			
Trim speed more that	an 30 km/h	Yes	А	Yes	А
Speed range using t	he controls larger than 10 km/h	Yes	А	Yes	А
Minimum speed		Less than 25 km/h	А	Less than 25 km/h	А
4. Control moveme	nt	Α			
Max. weight in flight	up to 80 kg				
Symmetric control pr	ressure / travel	not available	0	not available	0
Max. weight in flight 80 kg to 100 kg					
Symmetric control pressure / travel		Increasing / greater than 60 cm	А	not available	0
Max. weight in flight greater than 100 kg					
Symmetric control pressure / travel		not available	0	Increasing / greater than 65 cm	A
	iting accelerated flight	Α			
Dive forward angle on exit		Dive forward less than 30°	A	Dive forward less than 30°	A
Collapse occurs		No	Α	No	A
6. Pitch stability op	erating controls during accelerated	Α			
Collapse occurs		No	А	No	А
7. Roll stability and	damping	Α			
Oscillations		Reducing	А	Reducing	А
8. Stability in gentle	e spirals	Α			
Tendency to return to	o straight flight	Spontaneous exit	А	Spontaneous exit	А
9. Behaviour in a st	teeply banked turn	Α			
Sink rate after two tu	irns	12 m/s to 14 m/s	А	12 m/s to 14 m/s	А
10. Symmetric from	t collapse	Α			
Entry		Rocking back less than 45°	А	Rocking back less than 45°	A
Recovery		Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
C C	on exit / Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Keeping course	A
Cascade occurs		No	A	No	A
With accelerator					
Entry		Rocking back less than 45°	A	Rocking back less than 45°	A
Recovery		Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A

16. Trim speed spin tendency Spin occurs	A No	А	No	А
16 Trim anood onin tendency				
	symmetric control travel		control travel	
Amount of control range between turn and stall or spin	More than 50 % of the	А	More than 50 % of the symmetric	А
180° turn away from the collapsed side possible in 10 s	Yes	А	Yes	А
Able to keep course	Yes	А	Yes	А
collapse				
15. Directional control with a maintained asymmetric	A	A		Л
Cascade occurs	No	A	No	A
Twist occurs	No	A	No	A
Collapse on the opposite side occurs	No	A	No	A
Total change of course	Less than 360°	A	Less than 360°	A A
roll angle Re-inflation behaviour	15° to 45° Spontaneous re-inflation	А	to 45° Spontaneous re-inflation	Δ
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 15°	В
With 75% collapse and accelerator				
Cascade occurs	No	А	No	А
Twist occurs	No	А	No	А
Collapse on the opposite side occurs	No	А	No	А
Total change of course	Less than 360°	А	Less than 360°	А
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45°	A	90° to 180° / Dive or roll angle 15° to 45°	В
With 50% collapse and accelerator	Loop than 00° / Dive servell serve	^	00° to 100° / Dive as sell as sta 45°	-
	No	А	No	A
Twist occurs	No	A	No	A
Collapse on the opposite side occurs	No	A	No	A
Total change of course	Less than 360°	A	Less than 360°	A
Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	A
roll angle	15° to 45°		to 45°	
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 15°	В
With 75% collapse				
Cascade occurs	No	А	No	А
Twist occurs	No	А	No	А
Collapse on the opposite side occurs	No	А	No	А
Total change of course	Less than 360°	А	Less than 360°	А
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 0° to 15°	А	Less than 90° / Dive or roll angle 0° to 15°	A
With 50% collapse	Loop than 00° / Dive as sell as sta	٨	Loop than 00° / Dive or rell area - 0°	۸
14. Asymmetric collapse	В			
Line tension	Most lines tight	Α	Most lines tight	A
Rocking back	Less than 45°	A	Less than 45°	A
Cascade occurs (other than collapses)	No	A	No	A
Collapse	No collapse	A	No collapse	A
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
13. Recovery from a developed full stall	A		D	
Cascade occurs	No	A	No	A
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
12. High angle of attack recovery	Α			
Cascade occurs	No	А	No	А
Change of course	Changing course less than 45°	А	Changing course less than 45°	А
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Deep stall achieved	Yes	А	Yes	А
11. Exiting deep stall (parachutal stall)	Α			
Cascade occurs	No	А	No	А
	a turn of less than 90°		course	
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Entering	А	Dive forward 0° to 30° / Keeping	Α

17. Low speed spin tendency	Α			
Spin occurs	No	А	No	А
18. Recovery from a developed spin	Α			
Spin rotation angle after release	Stops spinning in less than 90°	А	Stops spinning in less than 90°	А
Cascade occurs	No	А	No	А
19. B-line stall	Α			
Change of course before release	Changing course less than 45°	А	Changing course less than 45°	А
Behaviour before release	Remains stable with straight span	A	Remains stable with straight span	A
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
Cascade occurs	No	А	No	А
20. Big ears	Α			
Entry procedure	Dedicated controls	А	Dedicated controls	А
Behaviour during big ears	Stable flight	А	Stable flight	А
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
21. Big ears in accelerated flight	Α			
Entry procedure	Dedicated controls	А	Dedicated controls	А
Behaviour during big ears	Stable flight	А	Stable flight	А
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	A	Stable flight	А
22. Behaviour exiting a steep spiral	Α			
Tendency to return to straight flight	Spontaneous exit	А	Spontaneous exit	А
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]	17		18	
23. Alternative means of directional control	Α			
180° turn achievable in 20 s	Yes	А	Yes	А
Stall or spin occurs	No	А	No	А
24. 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
25. Comments of test pilot				
Comments				