Flight test report

Manufacturer Dudek Paragliders Address ul. Centralna 2U

86-031 Osielsko Poland

Representive None Type of glider Synthesis 27 Closed trimmer

Trimmer

PG 089.2007 Certification number Date of flight test 21/06/2007 Villeneuve Place of test



Classification C

Test Pilot Claude Thurnheer Harness sup air Evo M 42cm

Total weight in flight 80 kg

Alain Zoller

Sol Paragliders - Slider L 105 kg

		Min weight	Max weight
1. Inflation/Ta		.	
	Rising behaviour Special take off technique required	Smooth, easy and constant rising No A	
2. Landing	On a sight harding to short our as southerd	Ma	
3. Speed in st	Special landing technique required	No A	A No A
o. opoou o.	Trim speed more than 30 km/h	Yes A	A Yes A
	Speed range using the controls larger than 10 km/h	Yes A	A Yes A
	Minimum speed	Less than 25 km/h	Less than 25 km/h
4. Control mo			
	Max. weight in flight up to 80 kg Symmetric control pressure/travel	not available	0 not available
	Max. weight in flight 80 kg to 100 kg	not available	That available
	Symmetric control pressure/travel	Increasing, Greater than 60 cm	not available
	Max. weight in flight greater than 100 kg		
Ditch stabil	Symmetric control pressure/travel lity exiting accelerated flight	not available	0 Increasing, Greater than 65 cm A
. FILCII SLADII	Dive forward angle on exit	Dive forward less than 30°	Dive forward less than 30° A
	Collapse occurs	No A	
. Pitch stabil	ity operating controls during accelerated flight		
. D. II	Collapse occurs	No A	A No A
. Roll stabilit	ty and damping Oscillations	Reducing A	A Reducing A
3. Stability in	gentle spirals	roddonig	recording
	Tendency to return to straight flight	Spontaneous exit	A Spontaneous exit A
. Behaviour	in a steeply banked turn		
0. 0	Sink rate after two turns	More than 14 m/s	More than 14 m/s
0. Symmetri	c front collapse Entry	Rocking back less than 45°	A Rocking back less than 45° A
	Recovery	Spontaneous in less than 3 s	S S S S S S S S S S S S S S S S S S S
	Dive forward angle on exit	Dive foward 0°to 30°, Keeping course	
	Cascade occurs	No A	A No A
	With accelerator	5 1: 1 1 1 1 15	
	Entry Recovery	Rocking back less than 45° Spontaneous in less than 3 s	
	Dive forward angle on exit	Dive foward 0°to 30°, Keeping course	
	Cascade occurs	No A	
1. Exiting de	ep stall (parachutal stall)		
	Deep stall achieved	Yes	
	Recovery Dive forward angle on exit	Spontaneous in less than 3 s Dive forward 0°to 30°	
	Change of course	Changing course less than 45°	
	Cascade occurs	No A	
2. High angle	e of attack recovery		
	Recovery Cascade occurs	Spontaneous in less than 3 s No	
3 Recovery	from a developed full stall	NO F	A No A
J. 11000 Very	Dive forward angle on exit	Dive forward 30°to 60°	Dive forward 30°to 60°
	Collapse	No collapse	No collapse A
	Cascade occurs (other than collapse)	No A	
	Rocking back	Less than 45°	
4. Asymmet	Line tension	Most line tight	Most line tight A
4. Adyninica	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°	
	Re-inflation behaviour	Spontaneous re-inflation A	
	Total change of course	Less than 360°	
	Collapse on the opposite side occurs Twist occurs	No A	A 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 15° to 45°	·
	Re-inflation behaviour	Spontaneous re-inflation	
	Total change of course Collapse on the opposite side occurs	Less than 360° No	
	Twist occurs	No A	
	Cascade occurs	No A	
	With 50% collapse and accelerator-Maximum dive forward of		
	Change of course until re-inflation	Less than 90°, Dive or roll angle 15° to 45°	
	Re-inflation behaviour	Spontaneous re-inflation Less than 360° A	•
	Total change of course Collapse on the opposite side occurs		A Less than 360° A A No A
			.1

	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	90° to 180°, Dive or roll angle 45° to 60°	С	90° to 180°, Dive or roll angle 45° to 60°	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 snee	ed spin tendency	mere than so // or the symmetric control travel	- ' '	more than 60 % of the cynmothe contact traver	
. с	Spin occurs	No	Α	No	Α
17. Low spec	ed spin tendency			,,,	
Low spec	Spin occurs	No	Δ	No	Α
18 Recovery	from a developed spin		, ·		
To. Recovery	Spin rotation angle after release	Stops spinning in less than 90°	Α	Stops spinning in less than 90°	Α
	Cascade occurs	No	A	No	A
19. B-line sta	0.000.00	NO	А	INO	А
19. D-IIIle Sta		Change of source loss than 450	^	Change of according then 450	
	Change of course before release	Change of course less than 45°	A	Change of course less than 45°	A
	Behaviour before release	Remains stable with straight span	Α	Remains stable with straight span	A
	Recovery	Spontaneous in 3 s to 5 s	В	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	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				
	Entry procedure	Dedicated controls		not available	0
	Behaviour during big ears	Unstable flight	С	not available	0
	Recovery	Spontaneous in less than 3 s	Α	not available	0
	Dive forward angle on exit	Dive forward 0° to 30°	Α	not available	0
	Behaviour immediately after releasing the accelerator while	Stable flight	Α	not available	0
22. Behaviou	r exiting a steep spiral				
	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		22 m/s	
23. Alternativ	ve means of directional control				
	180° turn achievable in 20 s	Yes	Α	Yes	Α
	Stall or spin occurs	No	Α	No	Α
24. Any othe	r flight 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	A
Comments o					
	Comments	no		Impossible to make Big ears with accelerator	
		···		to make big date mili debelorator	



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