Flight test report

Classification B

ManufacturerDudek ParaglidingAddress85-792 Bydgoszczul. Szancera 2/XIp
PolandRepresentiveChistophe GoninType of gliderNemo 21

Certification number Date of flight test Place of test PG 009.2006 24.05.2006 Villeneuve



Test Pilot Muriel Hercher Harness Sup'Air Light Total weight in flight 42 kg Marc Boyer ABS Sup'Air 42 cm between karabiner 65 kg

		Min weight		Max weight	
1. Inflation/T					
	Rising behaviour	Smooth, easy and constant rising	А	Smooth, easy and constant rising	A
	Special take off technique required	No	А	No	A
2. Landing	Special landing technique required	No	^	No	٨
2 Speed in a	Special landing technique required	NO	A	No	A
5. Speed in s	Trim speed more than 30 km/h	Yes	А	Yes	А
	Speed range using the controls larger than 10 km/h	Yes	A	Yes	A
	Minimum speed	Less than 25 km/h	A	Less than 25 km/h	A
4. Control m	•		~		~
	Max. weight in flight up to 80 kg				
	Symmetric control pressure/travel	Increasing, Greater than 55 cm	А	Increasing, Greater than 55 cm	А
	Max. weight in flight 80 kg to 100 kg			-	
	Symmetric control pressure/travel	not available	0	not available	0
	Max. weight in flight greater than 100 kg				
	Symmetric control pressure/travel	not available	0	not available	0
5. Pitch stab	ility exiting accelerated flight				
	Dive forward angle on exit	Dive forward less than 30°	A	Dive forward less than 30°	A
	Collapse occurs	No	А	No	A
o. Pitch stab	ility operating controls during accelerated flight	No	^	No	А
7 Roll stabil	Collapse occurs ity and damping	No	A	No	A
. Non Stabli	Oscillations	Reducing	А	Reducing	А
8. Stability in	n gentle spirals		Λ		А
or orability if	Tendency to return to straight flight	Spontaneous exit	А	Spontaneous exit	А
9. Behaviour	r in a steeply banked turn				
	Sink rate after two turns	12 m/s to 14 m/s	А	Up to 12m/s	А
10. Symmetr	ic front collapse				
-	Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
	Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	Α
	Dive forward angle on exit	Dive foward 0°to 30°, Keeping course	А	Dive foward 0°to 30°, Keeping course	Α
	Cascade occurs	No	А	No	Α
	With accelerator				
	Entry	Rocking back less than 45°	А	Rocking back less than 45°	Α
	Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	A
	Dive forward angle on exit	Dive foward 0°to 30°, Keeping course	Α	Dive foward 0°to 30°, Keeping course	Α
	Cascade occurs	No	А	No	A
11. Exiting d	eep stall (parachutal stall)	Vee	^	No	
	Deep stall achieved	Yes Spontaneous in less than 3 s	A	No Spontaneous in less than 3 s	A A
	Recovery Dive forward angle on exit	Dive forward 0°to 30°	A A	Dive forward 30°to 60°	B
	Change of course	Changing course less than 45°	A	Changing course less than 45°	A
	Cascade occurs	No	A	No	A
12. High and	le of attack recovery		~		~
	Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
	Cascade occurs	No		No	A
13. Recovery	/ from a developed full stall				
	Dive forward angle on exit	Dive forward 0°to 30°	А	Dive forward 0°to 30°	А
	Collapse	No collapse	А	No collapse	А
	Cascade occurs (other than collapse)	No		No	A
	Rocking back	Less than 45°		Less than 45°	A
	Line tension	Most line tight	А	Most line tight	A
14. Asymme					
	With 50% collapse-Maximum dive forward or roll angle				
	Change of course until re-infation	Less than 90°, Dive or roll angle 0° to 15°		Less than 90°, Dive or roll angle 0° to 15°	A
	Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	A
	Total change of course	Less than 360°		Less than 360°	A
	Collapse on the opposite side occurs Twist occurs	No No		No No	A A
	Cascade occurs	No		No	A
	With 75% collapse-Maximum dive forward or roll angle		A		A
	Change of course until re-infation	Less than 90°, Dive or roll angle 15° to 45°	А	90° to 180°, Dive or roll angle 15° to 45°	В
	Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	A
	Total change of course	Less than 360°		Less than 360°	A
	Collapse on the opposite side occurs			No	A
	Twist occurs	No		No	A
	Cascade occurs	No		No	Α
	With 50% collapse and accelerator-Maximum dive forwar	rd or roll angle			
	Change of course until re-infation	Less than 90°, Dive or roll angle 0° to 15°	А	Less than 90°, Dive or roll angle 15° to 45°	A
			_		

	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
	With 75% collapse and accelerator-Maximum dive forwa	rd or roll angle			
	Change of course until re-infation	Less than 90°, Dive or roll angle 15° to 45°	А	90° to 180°, Dive or roll angle 15° to 45°	В
	Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
	Total change of course	Less than 360°	A	Less than 360°	A
	Collapse on the opposite side occurs	No	A	No	A
	Twist occurs	No	A	No	A
	Cascade occurs	No	Ā	No	Ā
15 Direction	al control with a maintained asymmetric collapse	NO	A	NO	A
15. Direction	· · ·	Vaa	^	Yes	
	Able to keep course	Yes	A		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	A	More than 50 % of the symmetric control travel	Α
16. Trim spee	ed spin tendency				
	Spin occurs	No	Α	No	Α
17. Low spee	ed 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	А	No	А
19. B-line sta	II				
	Change of course before release	Change of course less than 45°	А	Change of 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	A	Spontaneous in less than 3 s	A
	Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
	Cascade occurs	No	Ā	No	A
20. Big ears	Cascade occurs	NO	A	NO	~
ZU. Dig ears	Entry procedure	Dedicated controls	А	Dedicated controls	А
	Behaviour during big ears	Stable flight	A	Stable flight	A
	Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	Α
	Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	Α
21. Big ears i	in accelerated flight				
	Entry procedure	Dedicated controls	Α	Dedicated controls	А
	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
	Behaviour immediately after releasing the accelerator				
	while maintaining big ears	Stable flight	А	Stable flight	А
22. Behaviou	r exiting a steep spiral	U		Ŭ	
	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]	14 m/s		11 m/s	~
23 Alternativ	ve means of directional control			1111/0	
25. Alternativ	180° turn achievable in 20 s	Yes	А	Yes	А
04 Americal	Stall or spin occurs	No	A	No	A
24. Any othe	r flight procedure and/or configuration described in the		-		-
	Procedure works as described	not available	0		0
	Procedure suitable for novice pilots	not available	0		0
	Cascade occurs	not available	0	not available	0
Comments o	f test pilot				
	Comments	Manufacturer test pilot. Alain give the instruction			
		via radio to the test pilot.		Beni flew for confirm 360° and Asymetric collapse	÷



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