Flight test report

Manufacturer Mac Para Technology Address 1.maje 823, P.O.Box 26 756 61 Roznov p. R.

Czech Republic

Representive None
Type of glider Velvet 26
Trimmer Closed trimmer

 Certification number
 PG 117.2008

 Date of flight test
 07/01/2008

 Place of test
 Villeneuve



Classification D

 Test Pilot
 Claude Thurnheer
 Alain Zoller

 Harness
 Advance Progress M light
 Mac - Goya M

 Total weight in flight
 80 kg
 125 kg

		Min weight	Max weight	
1. Inflation/Ta				
	Rising behaviour Special take off technique required	Smooth, easy and constant rising A No A	Smooth, easy and constant rising No	A A
2. Landing	On a stall have the section of a section of	NI-	All-	
3. Speed in st	Special landing technique required	No A	No	Α
o. opeca iii si	Trim speed more than 30 km/h	Yes A	Yes	Α
	Speed range using the controls larger than 10 km/h	Yes		Α
	Minimum speed	Less than 25 km/h	25 km/h to 30 km/h	В
4. Control mo				
	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	increasing, Greater than 33 cm	TIOL available	U
	Symmetric control pressure/travel	not available (not available	0
	Max. weight in flight greater than 100 kg			
F. Bitala atabil	Symmetric control pressure/travel	not available (Increasing, Greater than 65 cm	Α
5. Pitch Stabil	ity exiting accelerated flight Dive forward angle on exit	Dive forward less than 30° A	Dive forward less than 30°	Α
	Collapse occurs	No A		A
6. Pitch stabil	ity operating controls during accelerated flight			
	Collapse occurs	No A	No	Α
7. Roll stabilit	y and damping	Podusing A	Reducing	٨
8. Stability in	Oscillations gentle spirals	Reducing A	Reducing	Α
o. Glability III	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	Dealing healt less than 45°	Dealing heat less than 459	۸
	Entry Recovery	Rocking back less than 45° A Spontaneous in 3 s to 5 s B		A A
	Dive forward angle on exit	Dive foward 0°to 30°, Keeping course A	Dive foward 0°to 30°, Entering a turn less than	Α
	Cascade occurs	No A		Α
	With accelerator			
	Entry	Rocking back less than 45° A	· · · · · · · · · · · · · · · · · · ·	Α
	Recovery Dive forward angle on exit	Spontaneous in 3 s to 5 s Dive foward 0°to 30°, Keeping course A	Spontaneous in less than 3 s Dive foward 0°to 30°, Keeping course	A A
	Cascade occurs	No A	No	Α
11. Exiting de	ep stall (parachutal stall)	,,	110	
_	Deep stall achieved	Yes	Yes	Α
	Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s	Α
	Dive forward angle on exit Change of course	Dive forward 0°to 30° A Changing course less than 45° A	Dive forward 0°to 30°	A A
	Cascade occurs	No A	Changing course less than 45° No	A
12. High angle	e of attack recovery			
	Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s	Α
	Cascade occurs	No A	No	Α
3. Recovery	from a developed full stall Dive forward angle on exit	Dive forward 0°to 30° A	Dive forward 30°to 60°	В
	Collapse	No collapse A	No collapse	А
	Cascade occurs (other than collapse)	No A	No	Α
	Rocking back	Less than 45° A		Α
4 Angert	Line tension	Most line tight A	Most line tight	Α
14. Asymmetr	ic collapse 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° A	Less than 90°, Dive or roll angle 0° to 15°	Α
	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		Α
	Twist occurs Cascade occurs		No No	A
	With 75% collapse-Maximum dive forward or roll angle	No A	No	Α
	Change of course until re-inflation	90° to 180°, Dive or roll angle 15° to 45°	90° to 180°, Dive or roll angle 15° to 45°	В
	Re-inflation behaviour	Spontaneous re-inflation A	Spontaneous re-inflation	Α
	Total change of course	Less than 360° A	Less than 360°	A
	Collapse on the opposite side occurs	No A	No No	A
	Twist occurs Cascade occurs	No A	No No	A A
	With 50% collapse and accelerator-Maximum dive forward or		1.0	
	Change of course until re-inflation	Less than 90°, Dive or roll angle 15° to 45° A	Less than 90°, Dive or roll angle 15° to 45°	Α
	Re-inflation behaviour	Spontaneous re-inflation A	Spontaneous re-inflation	Α
	Total change of course	Less than 360° A		A
	Collapse on the opposite side occurs	No A	No No	Α

	Twist occurs	No	۸	No	Λ
	Cascade occurs	No		No	A A
	With 75% collapse and accelerator-Maximum dive forward o		А	INO	A
	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	A	Spontaneous re-inflation	A
	Total change of course	Less than 360°	A	Less than 360°	A
		No	A	No	A
	Collapse on the opposite side occurs Twist occurs		A	No	
		No No	A		A
15 Direction	Cascade occurs al control with a maintained asymmetric collapse	NO	А	No	Α
15. Directiona	Able to keep course	Yes	Α	Yes	Α
	180° turn away from the collapsed side possible in 10 s	Yes	A	Yes	A
4C Tuim ana	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	Nie	^	No	۸
17 Law anao	Spin occurs ed spin tendency	No	Α	INO	Α
17. Low spee	Spin occurs	No	Α	No	Α
19 December	from a developed spin	NO	А	INO	А
16. 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		NO	А	INO	А
19. B-line Sta		Change of course less than 45°	Α	Change of course less than 45°	
	Change of course before release Behaviour before release	Remains stable with straight span	A	Remains stable with straight span	A A
	Recovery	Spontaneous in less than 3 s Dive forward 0° to 30°	A A	Spontaneous in less than 3 s Dive forward 0° to 30°	A A
	Dive forward angle on exit Cascade occurs	No	A	No	A
20. Big ears	Cascade occurs	NO	А	INO	A
Zu. Big ears	Entry procedure	Dedicated controls	Α	Dedicated controls	Α
	Behaviour during big ears	Stable flight	A	Stable flight	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
24 Pig core i	in accelerated flight	Dive forward 0 to 30	А	Dive lorward 0 to 30	A
ZI. big ears i	Entry procedure	Dedicated controls	Α	Dedicated controls	Α
		Stable flight	A	Stable flight	A
	Behaviour during big ears	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
	Recovery Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
	Behaviour immediately after releasing the accelerator while	Stable flight	A	Stable flight	A
	,	Stable liight	^	Stable liight	
22 Rehaviou	maintaining big ears or exiting a steep spiral				
ZZ. Deliaviou	Tendency to return to straight flight	Spontaneous exit	Α	Turn remains constant	D
	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]	21 m/s	^	25 m/s	^
22 Altornativ	ve means of directional control	2111/5		23 11//8	
23. Alternativ	180° turn achievable in 20 s	Yes	Α	Yes	Α
		No.		No	
24 Any other	Stall or spin occurs	***	Α	INU	Α
24. Any other	r flight procedure and/or configuration described in the us		0	not ovoilable	0
	Procedure works as described	not available	0	not available not available	0
	Procedure suitable for novice pilots	not available	0		0
Commont	Cascade occurs	not available	U	not available	0
Comments of	•				
	Comments	no		no	



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