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 Open trimmer

 Certification number
 PG 117.2008

 Date of flight test
 10/01/2008

 Place of test
 Villeneuve



Classification C

 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/Tal		min weight	max weight	
	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				
2 Enood in other	Special landing technique required	No A	No	Α
3. Speed in str	Trim speed more than 30 km/h	Yes A	Yes	Α
	Speed range using the controls larger than 10 km/h	Yes A		Α
	Minimum speed	Less than 25 km/h A		В
4. Control mov				
	Max. weight in flight up to 80 kg			
	Symmetric control pressure/travel Max. weight in flight 80 kg to 100 kg	not available 0	not available	0
	Symmetric control pressure/travel	Increasing, Greater than 55 cm A	not available	0
	Max. weight in flight greater than 100 kg	Thorodollig, Greater than 50 on	not available	Ü
	Symmetric control pressure/travel	not available 0	Increasing, Greater than 65 cm	Α
5. Pitch stabili	ty exiting accelerated flight			
	Dive forward angle on exit	Dive forward less than 30° A	Dive forward less than 30°	A
6 Pitch stabili	Collapse occurs ty operating controls during accelerated flight	No A	No	Α
o. i itoli stabili	Collapse occurs	No A	No	Α
7. Roll stability	y and damping			
	Oscillations	Reducing A	Reducing	Α
8. Stability in g		0	0	
9. Robaviour i	Tendency to return to straight flight n a steeply banked turn	Spontaneous exit A	Spontaneous exit	Α
5. Bellaviour II	Sink rate after two turns	More than 14 m/s B	More than 14 m/s	В
10. Symmetric	front collapse			
	Entry	Rocking back less than 45° A	Rocking back less than 45°	Α
	Recovery	Spontaneous in 3 s to 5 s	Spontaneous in less than 3 s	Α
	Dive forward angle on exit Cascade occurs	Dive foward 0°to 30°, Keeping course A No A	Dive foward 0°to 30°, Keeping course	A
	With accelerator	NO A	NO	Α
	Entry	Rocking back less than 45° A	Rocking back less than 45°	Α
	Recovery	Spontaneous in 3 s to 5 s	Spontaneous in less than 3 s	Α
	Dive forward angle on exit	Dive foward 0°to 30°, Keeping course A	Dive foward 0°to 30°, Entering a turn less than	Α
44 = 10	Cascade occurs	No A	No	Α
11. Exiting dec	ep stall (parachutal stall) Deep stall achieved	Yes A	Yes	Α
	Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s	A
	Dive forward angle on exit	Dive forward 0°to 30° A	Dive forward 0°to 30°	Α
	Change of course	Changing course less than 45° A	Changing course less than 45°	Α
	Cascade occurs	No A	No	Α
12. High angle	of attack recovery	Spontaneous in less than 3 s	Chantanagua in laga than 2 a	Α
	Recovery Cascade occurs	Spontaneous in less than 3 s A No A	Spontaneous in less than 3 s	A
13. Recovery f	rom a developed full stall			
	Dive forward angle on exit	Dive forward 0°to 30°	Dive forward 30°to 60°	В
	Collapse	No collapse A	No collapse	Α
	Cascade occurs (other than collapse)	No A	No	A
	Rocking back Line tension	Less than 45° A Most line tight A	Less than 45° Most line tight	A A
14. Asymmetri				*
	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 15° to 45°	Α
	Re-inflation behaviour	Spontaneous re-inflation A	Spontaneous re-inflation	A
	Total change of course Collapse on the opposite side occurs	Less than 360° A No A	Less than 360°	A A
	Twist occurs		No	A
	Cascade occurs	No A		Α
	With 75% collapse-Maximum dive forward or roll angle			
	Change of course until re-inflation	90° to 180°, Dive or roll angle 45° to 60° C		В
	Re-inflation behaviour Total change of course	Spontaneous re-inflation A Less than 360° A	Spontaneous re-inflation Less than 360°	A A
	Collapse on the opposite side occurs	No A	No	A
	Twist occurs	No A	No	A
	Cascade occurs	No A	No	Α
	With 50% collapse and accelerator-Maximum dive forward or			
	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°	A
	Re-inflation behaviour Total change of course	Spontaneous re-inflation A Less than 360° A	Spontaneous re-inflation Less than 360°	A A
	Collapse on the opposite side occurs	No A		A
	Tamber and opposite orde occurs	.	1	

	Twist occurs	Na	۸	No	۸
	Cascade occurs	No No		No No	A A
	With 75% collapse and accelerator-Maximum dive forward or		А	NO	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 Tuins an ac	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	Na	^	No	۸
17 Law anao	Spin occurs d spin tendency	No	Α	NO	Α
17. Low spee	Spin occurs	No	Α	No	Α
10 Bassyony		NO	А	NO	А
io. Recovery	from a developed spin	Stans animping in loss than 00°	۸	Stans animping in loss than 00°	٨
	Spin rotation angle after release	Stops spinning in less than 90°		Stops spinning in less than 90°	A
40. D. Um1-1	Cascade occurs	No	Α	No	Α
19. B-line sta		Ohanna of annua land their AFO		Observe of severe less than 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	A	Remains stable with straight span	A
	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	A
	Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
00 0'	Cascade occurs	No	Α	No	Α
20. Big ears	Esternandor	De Parte de controle		De Parte de controle	
	Entry procedure	Dedicated controls	A	Dedicated controls	A
	Behaviour during big ears	Stable flight	Α	Stable flight	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°	Α
04 Din	Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	Α
21. Big ears i	n accelerated flight	De Parte de controle		De Parte de controle	
	Entry procedure	Dedicated controls	Α	Dedicated controls	Α
	Behaviour during big ears	Unstable flight	C	Unstable flight	C
	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	A
	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	Α	Stable flight	Α
22 Daharia	maintaining big ears				
ZZ. Benaviou	r exiting a steep spiral	Coortonoous suit	٨	Coortonoous suit	^
	Tendency to return to straight flight Turn angle to recover normal flight	Spontaneous exit Less than 720°, spontaneous recovery	A A	Spontaneous exit Less than 720°, spontaneous recovery	A
		23 m/s	А	Less than 720°,spontaneous recovery 26 m/s	А
00. 44	Sink rate when evaluating spiral stability [m/s]	23 11/8		20 111/5	
23. Alternativ	e means of directional control	V	٨	V	^
	180° turn achievable in 20 s	Yes	Α	Yes	A
04 4	Stall or spin occurs	No	Α	No	Α
24. Any other	flight procedure and/or configuration described in the us				
	Procedure works as described	not available	0		0
	Procedure suitable for novice pilots	not available	0	not available	0
	Cascade occurs	not available	0	not available	0
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.para-test.com



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