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 Muse 2 28 not available Trimmer

PG 080.2007 Certification number Date of flight test 19/06/2007 Villeneuve Place of test



Classification B

Test Pilot Claude Thurnheer Harness Gin Genie III M

Total weight in flight 85 kg

Alain Zoller Advance - Progress L

1	l 1	10	Ш	k	a	

		Min weight	ı	Max weight	
1. Inflation/Ta					
	Rising behaviour Special take off technique required			Smooth, easy and constant rising No	A A
2. Landing	Canada landina tashainus nasuirad	Nie	Α	Na	Α
3. Speed in st	Special landing technique required	No	А	No	А
	Trim speed more than 30 km/h	Yes	Α	Yes	Α
	Speed range using the controls larger than 10 km/h			Yes	Α
4. Control mo	Minimum speed	Less than 25 km/h	Α	Less than 25 km/h	Α
4. Control Illo	Max. weight in flight up to 80 kg				
	Symmetric control pressure/travel	not available	0	not available	0
	Max. weight in flight 80 kg to 100 kg				_
	Symmetric control pressure/travel Max. weight in flight greater than 100 kg	Increasing, Greater than 60 cm	Α	not available	0
	Symmetric control pressure/travel	not available	0	Increasing, Greater than 65 cm	Α
5. Pitch stabil	ity exiting accelerated flight				
	Dive forward angle on exit Collapse occurs			Dive forward less than 30° No	A A
6. Pitch stabil	lity operating controls during accelerated flight	INO .	^	INO	
	Collapse occurs	No	Α	No	Α
7. Roll stabilit	ty and damping	Reducing	۸	Poducing	۸
8. Stability in	Oscillations gentle spirals	Reducing	Α	Reducing	Α
or oranginity in	Tendency to return to straight flight	Spontaneous exit	Α	Spontaneous exit	Α
9. Behaviour i	in a steeply banked turn				
10 Cummetri	Sink rate after two turns c front collapse	More than 14 m/s	В	More than 14 m/s	В
io. Symmetric	Entry	Rocking back less than 45°	А	Rocking back less than 45°	Α
	Recovery			Spontaneous in less than 3 s	Α
	Dive forward angle on exit	· · · · · · ·		Dive foward 0°to 30°, Keeping course	Α
	Cascade occurs With accelerator	No	Α	No	Α
	Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
	Dive forward angle on exit	· · · · · · ·		Dive foward 0°to 30°, Keeping course	A
11. Exiting de	Cascade occurs ep stall (parachutal stall)	No	Α	No	Α
	Deep stall achieved	Yes	Α	Yes	Α
	Recovery			Spontaneous in less than 3 s	Α
	Dive forward angle on exit Change of course			Dive forward 0°to 30° Changing course less than 45°	A A
	Cascade occurs			No	A
12. High angle	e of attack recovery				
	Recovery			Spontaneous in less than 3 s	A
13. Recovery	Cascade occurs from a developed full stall	No	Α	No	Α
	Dive forward angle on exit	Dive forward 0°to 30°	Α	Dive forward 0°to 30°	Α
	Collapse			No collapse	Α
	Cascade occurs (other than collapse) Rocking back			No Less than 45°	A A
	Line tension			Most line tight	A
14. Asymmetr					
	With 50% collapse-Maximum dive forward or roll angle Change of course until re-inflation	Loca than 00° Divo or roll angle 0° to 15°	^	Loss than 00° Dive or roll angle 0° to 15°	۸
	Re-inflation behaviour	· · · · · · · · · · · · · · · · · · ·		Less than 90°, Dive or roll angle 0° to 15° Spontaneous re-inflation	A A
	Total change of course			Less than 360°	Α
	Collapse on the opposite side occurs			No	Α
	Twist occurs Cascade occurs		A	No No	A A
	With 75% collapse-Maximum dive forward or roll angle	140	^	110	A
	Change of course until re-inflation	Less than 90°, Dive or roll angle 15° to 45°		Less than 90°, Dive or roll angle 0° to 15°	Α
	· · · · ·			On and an annual or find attention	Λ.
	Re-inflation behaviour	Spontaneous re-inflation		Spontaneous re-inflation	A
	Re-inflation behaviour Total change of course	Spontaneous re-inflation Less than 360°	Α	Less than 360°	Α
	Re-inflation behaviour	Spontaneous re-inflation Less than 360° No	A A		
	Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs	Spontaneous re-inflation Less than 360° No No No	A A A	Less than 360° No	A A
	Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs With 50% collapse and accelerator-Maximum dive forward or	Spontaneous re-inflation Less than 360° No No No roll angle	A A A	Less than 360° No No No	A A A
	Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs With 50% collapse and accelerator-Maximum dive forward of Change of course until re-inflation	Spontaneous re-inflation Less than 360° No No No roll angle Less than 90°, Dive or roll angle 0° to 15°	A A A A	L'ess than 360° No No No L'ess than 90°, Dive or roll angle 0° to 15°	A A A
	Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs With 50% collapse and accelerator-Maximum dive forward or	Spontaneous re-inflation Less than 360° No No No Toll angle Less than 90°, Dive or roll angle 0° to 15° Spontaneous re-inflation	A A A A A	Less than 360° No No No	A A A

	Twist occurs	No	Α	No	Α
	Cascade occurs	No		No	Α
	With 75% collapse and accelerator-Maximum dive forward o		,,		
	Change of course until re-inflation	Less than 90°, Dive or roll angle 15° to 45°	Α	Less than 90°, Dive or roll angle 15° to 45°	Α
	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. Directiona	al control with a maintained asymmetric collapse	110	, ,		
	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	d spin tendency	more than so /s of the dynamous control travel	- ' '	more than so /s or the cylimbaric control traver	
. с	Spin occurs	No	Α	No	Α
17. Low speed	d spin tendency		,,		71
20 opeoc	Spin occurs	No	Α	No	Α
18. Recovery	from a developed spin		,,		-/1
io. Recovery	Spin rotation angle after release	Stops spinning in less than 90°	Α	Stops spinning in less than 90°	Α
	Cascade occurs	No	Α	No	Α
19. B-line stal		140		NO	
13. D-IIIe stai	Change of course before release	Change of course less than 45°	Α	Change of course less than 45°	Α
	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.	A	No.	A
20 Din	Cascade occurs	NO	А	INO	А
20. Big ears	Fater assessment	Dedicated controls	Α	Dedicated controls	Α
	Entry procedure 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
	Recovery	Sportlaneous in less than 3 s	А	Spontaneous in less than 3 s	A
	Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
21 Big care is	n accelerated flight	Dive lorward 0 to 50	А	Dive lorward 0 to 50	A
z i. biy cais ii	Entry procedure	Dedicated controls	Α	Dedicated controls	Α
	Behaviour during big ears	Stable flight	A	Stable flight	A
		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
00. Dalaasiassa	Behaviour immediately after releasing the accelerator while	Stable flight	Α	Stable flight	Α
22. Benaviour	r exiting a steep spiral	Canadanasia suit	۸	Constanting suit	^
	Tendency to return to straight flight	Spontaneous exit	Α	Spontaneous exit	A
	Turn angle to recover normal flight	Less than 720°, spontaneous recovery	Α	Less than 720°, spontaneous recovery	Α
00. Altania atha	Sink rate when evaluating spiral stability [m/s]	18 m/s		18 m/s	
23. Alternative	e means of directional control	V		V	
	180° turn achievable in 20 s	Yes	Α	Yes	Α
		No	Α	No	Α
24 Amu att	Stall or spin occurs				
24. Any other	flight procedure and/or configuration described in the us	er's manual		and an allert	
24. Any other	flight procedure and/or configuration described in the us Procedure works as described	er's manual not available		not available	
24. Any other	flight procedure and/or configuration described in the us Procedure works as described Procedure suitable for novice pilots	er's manual not available not available	0	not available	0
	flight procedure and/or configuration described in the us Procedure works as described Procedure suitable for novice pilots Cascade occurs	er's manual not available			0
24. Any other Comments of	flight procedure and/or configuration described in the us Procedure works as described Procedure suitable for novice pilots Cascade occurs	er's manual not available not available	0	not available	0 0 0



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.cen.li