Flight test report

Manufacturer MCC Aviation
Address La Tuilière
1091 Grandvau

1091 Grandvaux Switzerland

Representive None
Type of glider Amaya XS
Trimmer not available

 Certification number
 PG 044.2007

 Date of flight test
 18/04/2007

 Place of test
 Villeneuve



Classification B

 Test Pilot
 Seiko Fukuoka
 Claude Thurnheer

 Harness
 sup air light
 Sky revers

 Total weight in flight
 60 kg
 75 kg

		Min weight	Max weight	
1. Inflation/Tal		min weight	max reight	
	Rising behaviour Special take off technique required	Smooth, easy and constant rising A No A		A A
2. Landing				
3. Speed in str	Special landing technique required	No A	No .	4
	Trim speed more than 30 km/h	Yes A	Yes	٩
	Speed range using the controls larger than 10 km/h	Yes A		١
	Minimum speed	Less than 25 km/h A	Less than 25 km/h	٩
4. Control mov				
	Max. weight in flight up to 80 kg	Increasing Creater than 55 are	In acceptance Constant then 55 am	
	Symmetric control pressure/travel Max. weight in flight 80 kg to 100 kg	Increasing, Greater than 55 cm A	Increasing, Greater than 55 cm	4
	Symmetric control pressure/travel	not available 0	not available	0
	Max. weight in flight greater than 100 kg			
	Symmetric control pressure/travel	not available (not available	0
5. Pitch stabili	ty exiting accelerated flight	Dive femoral less than 200	Dive forward less than 200	Ą
	Dive forward angle on exit Collapse occurs	Dive forward less than 30° A No A		4
6. Pitch stabili	ty operating controls during accelerated flight	7.		ì
	Collapse occurs	No A	No	4
7. Roll stability	y and damping	5.4.4		
Q Ctability in	Oscillations	Reducing A	Reducing	4
8. Stability in (gentie spirals Tendency to return to straight flight	Spontaneous exit A	Spontaneous exit	١
9. Behaviour in	n a steeply banked turn	7		1
	Sink rate after two turns	Up to 12m/s A	More than 14 m/s	3
10. Symmetric	front collapse			
	Entry	Rocking back less than 45° A		١
	Recovery Dive forward angle on exit	Spontaneous in less than 3 s Dive foward 0°to 30°, Keeping course A		A A
	Cascade occurs	No A		Α.
	With accelerator			
	Entry	Rocking back less than 45° A		Ą
	Recovery	Spontaneous in less than 3 s		A
	Dive forward angle on exit Cascade occurs	Dive foward 0°to 30°, Keeping course A No A		A A
11. Exiting dec	ep stall (parachutal stall)	NO A	NO .	`
	Deep stall achieved	Yes A	Yes	Ą
	Recovery	Spontaneous in less than 3 s	·	Ą
	Dive forward angle on exit	Dive forward 0°to 30° A		4
	Change of course Cascade occurs	Changing course less than 45° A No A		A A
12. High angle	of attack recovery	7.		ì
3 . 3 .	Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s	Ą
	Cascade occurs	No A	No	4
13. Recovery f	from a developed full stall	Dive femoral 09te 209	Dive femaled 09te 209	
	Dive forward angle on exit Collapse	Dive forward 0°to 30° A No collapse A		A A
	Cascade occurs (other than collapse)	No A		À
	Rocking back	Less than 45° A		٩
	Line tension	Most line tight A	Most line tight	Ą
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 0° to 15°	4
	Re-inflation behaviour	Spontaneous re-inflation A		À
	Total change of course	Less than 360° A	Less than 360°	Ą
	Collapse on the opposite side occurs	No A		A
	Twist occurs			١
	Cascade occurs With 75% collapse-Maximum dive forward or roll angle	No A	No .	٩
	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°	٩
	Re-inflation behaviour	Spontaneous re-inflation A	Spontaneous re-inflation	Ą
	Total change of course	Less than 360° A		٩
	Collapse on the opposite side occurs	No A		١
	Twist occurs Cascade occurs	No A No A		4
	With 50% collapse and accelerator-Maximum dive forward or			٠
	Change of course until re-inflation	Less than 90°, Dive or roll angle 15° to 45° A		٩
	Re-inflation behaviour	Spontaneous re-inflation A		A
	Total change of course	Less than 360° A		١
	Collapse on the opposite side occurs	No A	No	4

	Total	Ni.		NI-	•
	Twist occurs	No		No	A
	Cascade occurs	No	Α	No	Α
	With 75% collapse and accelerator-Maximum dive forward o			1 the 2000 Diverse and 1 the 450 to 450	
	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	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 spe	ed spin tendency				
	Spin occurs	No	Α	No	Α
17. Low spec	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	Α	No	Α
19. B-line sta	all				
	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	Α	Remains stable with straight span	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
	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	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
	Behaviour immediately after releasing the accelerator while	Stable flight	Α	Stable flight	Α
22. Behaviou	ır 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]	14 m/s		19 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	er's manual			
, 54	Procedure works as described	not available	0	not available	0
	Procedure suitable for novice pilots	not available	0	not available	0
	Cascade occurs	not available	0	not available	0
Comments o					
	Comments	no		no	
	Comments				



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