

## Flight test report: EN 926-2:2013

	Manufacturer	MCC Aviation SA	Certification number		PG_1024.2016	
	Address	La Tuilière	Date of flight test			
		1091 Grandvaux				
		Switzerland				
					•	
	Glider model	Amaya 3 M	Classification		Α	
	Serial number	31-1451	Representative		Paux Alexandre	
	Trimmer	no	Place of test		Villeneuve	
	Test pilot		Thurnheer Claude		Berruex Gilles	
	Test pilot					
	Harness		Supair - Altiplume S		Supair - Access M	
	Harness to risers distance (cm) Distance between risers (cm)		43 40		43	
					46	
	Total weight in flight (kg)		79		103	
	1. Inflation/Take-off		A			
	Rising behaviour			А	Smooth, easy and constant rising	А
	Special take off technique r	required	No	A		A
	2. Landing		A			••
	Special landing technique r	equired	No	А	No	А
	3. Speed in straight flight		Α			
	Trim speed more than 30 k		Yes	А	Yes	А
	Speed range using the con	trols larger than 10 km/h	Yes	А	Yes	А
	Minimum speed		Less than 25 km/h	А	Less than 25 km/h	А
	4. Control movement		А			
	Max weight in flight up to	90 ka				
	<i>Max. weight in flight up to</i> Symmetric control pressure		Increasing / greater than 55 cm	^	not available	0
	Symmetric control pressure		increasing / greater than 55 cm	A	not available	0
	Max. weight in flight 80 kg	g to 100 kg				
	Symmetric control pressure	e / travel	not available	0	not available	0
	Max. weight in flight grea	ter than 100 kg				
	Symmetric control pressure	-	not available	0	Increasing / greater than 65 cm	А
	5. Pitch stability exiting a		Α	Ũ	his backing , groater than be on	,,
	Dive forward angle on exit	g	Dive forward less than 30°	А	Dive forward less than 30°	А
	Collapse occurs		No	А	No	А
	•	g controls during accelerated	А			
	flight					
	Collapse occurs		No	Α	No	А
	7. Roll stability and damping		Α			
	Oscillations		Reducing	А	Reducing	А
	8. Stability in gentle spira		Α			
	Tendency to return to straight flight 9. Behaviour exiting a fully developed spiral dive		Spontaneous exit	A	Spontaneous exit	A
			A	•		
	Initial response of glider (fir	st 180°)	Immediate reduction of rate of turn	A	Immediate reduction of rate of turn	A
	Tendency to return to straig	ght flight	Spontaneous exit (g force	А	Spontaneous exit (g force	А
			decreasing, rate of turn decreasing)		decreasing, rate of turn decreasing)	
	Turn angle to recover norm	al flight	Less than 720°, spontaneous	А	Less than 720°, spontaneous	А
	, in the second s	-	recovery		recovery	

## 10. Symmetric front collapse

## Α

Approximately 30 % chord				
Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Dive forward angle on exit Change of course	Dive forward 0° to 30° Keeping course	A	Dive forward 0° to 30° Keeping course	A
Cascade occurs	No	А	No	А
Folding lines used	No	A	No	A
		~		~
At least 50% chord				
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	А
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Keeping course	А
Cascade occurs	No	А	No	Α
Folding lines used	No	А	No	А
With accelerator				
Entry	Rocking back less than 45°	A	Rocking back less than 45°	A
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Keeping course	A
Cascade occurs	No	A	No	A
Folding lines used	No	A	No	Α
11. Exiting deep stall (parachutal stall)	Α			_
Deep stall achieved	Yes	Α	Yes	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°	A	Dive forward 0° to 30°	А
Change of course	Changing course less than 45°	A	Changing course less than 45°	A
Cascade occurs	No	A	No	A
12. High angle of attack recovery	Α			
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Cascade occurs	No	A	No	A
13. Recovery from a developed full stall	A		<b>D</b>	
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
Collapse	No collapse	A	No collapse	A
Cascade occurs (other than collapses)	No	A	No	A
Rocking back	Less than 45°	A	Less than 45°	A
Line tension	Most lines tight	A	Most lines tight	A
14. Asymmetric collapse	Α			
Small asymmetric collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 0° to 15° $$	A	Less than 90° / Dive or roll angle 0° to 15° $$	А
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs				
	No (or only a small number of collapsed cells with a	A	No (or only a small number of collapsed cells with a spontaneous	A
Twist secure	collapsed cells with a spontaneous reinflation)		collapsed cells with a spontaneous reinflation)	
Twist occurs	collapsed cells with a spontaneous reinflation) No	A	collapsed cells with a spontaneous reinflation) No	A
Cascade occurs	collapsed cells with a spontaneous reinflation) No No	A A	collapsed cells with a spontaneous reinflation) No No	A A
	collapsed cells with a spontaneous reinflation) No	A	collapsed cells with a spontaneous reinflation) No	A
Cascade occurs	collapsed cells with a spontaneous reinflation) No No	A A	collapsed cells with a spontaneous reinflation) No No	A A
Cascade occurs Folding lines used <i>Large asymmetric collapse</i> Change of course until re-inflation / Maximum dive forward or	collapsed cells with a spontaneous reinflation) No No	A A	collapsed cells with a spontaneous reinflation) No No	A A
Cascade occurs Folding lines used Large asymmetric collapse	collapsed cells with a spontaneous reinflation) No No Less than 90° / Dive or roll angle	A A A	collapsed cells with a spontaneous reinflation) No No No	A A A
Cascade occurs Folding lines used <i>Large asymmetric collapse</i> Change of course until re-inflation / Maximum dive forward or roll angle	collapsed cells with a spontaneous reinflation) No No Less than 90° / Dive or roll angle 15° to 45°	A A A	collapsed cells with a spontaneous reinflation) No No No Less than 90° / Dive or roll angle 15° to 45°	A A A

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roll angle   15" to 45"   15" to 45"     Re-inflation behaviour   Spontaneous re-inflation   A     Total change of course   Less than 360"   A   Less than 360"   A     Collapse on the opposite side occurs   No (or only a small number of apportaneous re-inflation)   A   No (or only a small number of apportaneous re-inflation)   A     Twist occurs   No No   A   No   No   A   No   A     Catage accurs   No   A   No   A   No   A   A     Change of course until re-inflation / Maximum dive forward or roll angle fs" to 45"   Less than 30" / Dive or roll angle fs" to 45"   A   Less than 30" / Dive or roll angle fs" to 45"   A   Less than 30" / Dive or roll angle fs" to 45"   A   Less than 30" / Dive or roll angle fs" to 45"   A   Less than 30" / Dive or roll angle fs" to 45"   A   Less than 30" / Dive or roll angle fs" to 45"   A   Less than 30" / Dive or roll angle fs" to 45"   A   Less than 30" / Dive or roll angle fs" to 45"   A   Less than 30" / Dive or roll angle fs" to 45"   A   Less than 30" / Dive or roll angle fs" to 45"   A   Less than 30" / Dive or roll angle fs" to 45"   A   Less than 30" / Dive or roll angle fs" to 45"   A   Less than 30" / Dive or ro					
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Change of course until re-inflation / Maximum dive forward or noll angleLess than 90° / Dive or roll angle 15° to 45°ALess than 90° / Dive or roll angle 15° to 45°ARe-inflation behaviourSpontaneous re-inflationASpontaneous re-inflationATotal change of courseLess than 360°ALess than 360°ACollapse on the opposite side occursNo (or only a small number of collapsed cells with a spontaneous reinflation)ANo (or only a small number of collapsed cells with a spontaneous reinflation)ATwist occursNoANoANoACascade occursNoANoANoAFolding lines usedNoANoANoA15. Directional control with a maintained asymmetric collapsedAYesAYesAAble to keep courseYesAYesAYesA180° turn away from the collapsed side possible in 10 sYesANoAAmount of control range between turn and stall or spin spin occursNoANoA16. Trim speed spin tendencyANoANoASpin occursNoANoANoA19. Beline stallAChanging course less than 90°ANoA19. Covery from a developed spinAStops spinning in less than 90°AStops spinning in less than 90°A19. Beline stallAChanging course less than 45°	Folding lines used	No	А	No	А
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Collapse on the opposite side occursNo (or only a small number of collapsed cells with a spontaneous reinflation)A No (or only a small number of collapsed cells with a spontaneous reinflation)A No (or only a small number of collapsed cells with a spontaneous reinflation)A NoNo (or only a small number of collapsed cells with a spontaneous reinflation)A NoNoA NoNoA No <td>Re-inflation behaviour</td> <td>Spontaneous re-inflation</td> <td>А</td> <td>Spontaneous re-inflation</td> <td>А</td>	Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
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Cascade occursNoANoAFolding lines usedNoANoAf5. Directional control with a maintained asymmetric collapseA-Able to keep courseYesAYesA180° turn away from the collapsed side possible in 10 sYesAYesAAmount of control range between turn and stall or spinMore than 50 % of the symmetric control travelAMore than 50 % of the symmetric control travelA5pin occursNoANoA16. Trim speed spin tendencyASpin occursNoA5pin occursNoANoA18. Recovery from a developed spinAStops spinning in less than 90°A19. B-line stallAStops spinning in less than 90°A19. B-line stallARemains stable with straight spanARecoverySpontaneous in less than 45°ABehaviour before releaseChanging course less than 45°ARecoverySpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°A20. Big earsAAEntry procedureBehaviour during big earsStable flightABehaviour during big earsStable flightAStable flightAStable flightADive forward 0° to 30°ADive forward 0° to 30°ADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°<	Collapse on the opposite side occurs	collapsed cells with a	A	collapsed cells with a spontaneous	A
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15. Directional control with a maintained asymmetric collapse   A     Able to keep course   Yes   A   Yes   A     180° turn away from the collapsed side possible in 10 s   Yes   A   Yes   A     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   A     16. Trim speed spin tendency   A   A   No   A   No   A     Spin occurs   No   A   No   A   No   A     17. Low speed spin tendency   A   Stops spinning in less than 90°   A   No   A     Spin occurs   No   A   No   A   No   A     Spin occurs   No   A   No   A   Stops spinning in less than 90°   A     18. Recovery from a developed spin   A   A   No   A   No   A     Cascade occurs   No   A   No   A   No   A     Change of course before release   Changing course less than 45°   A   Changing course less than 45°   A     Behaviour before releas	Cascade occurs	No	А	No	А
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	-	•			A
21 Big ears in accelerated flight A			A	Dive forward 0° to 30°	A
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24. Comments of test pilot

Comments