



## Flight and Load test report - EN 12491:2001

**Manufacturer** MCC Aviation SA  
**Address** Route de Forel, 34  
 1091 Grandvaux  
 Switzerland

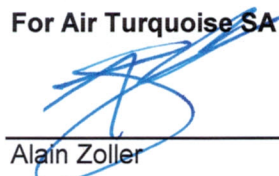
**Certification number:** EP 083.2013  
**Type/model:** SOS Standard M  
**Total weight in flight:** 86 kg

Description of tests	place:	date:	result:
<b>1. Deployment system strength test</b> A load of 700 N between each components	Villeneuve		
<b>2. Speed of opening test - ref. A (2 times)</b> Time from the instant of free drop until a load of 200 N is sustained Opening time Opening time	Villeneuve	11.09.2009 13.09.2010	< 5 seconds < 5 seconds
<b>3. Descent rate and stability test - ref. A and B (2 times)</b> The paraglider is released as the parachute begins to open, minimum 100 m descent. Stability 1 Sink rate 1 Stability 2 Sink rate 2	Villeneuve	11.09.2009 11.09.2009 13.09.2010 13.09.2010	Stable 5.4 m/sec Stable 5.24 m/sec
<b>4. Strength test 40 m/s opening shock (2 times)</b> The drop test device is accelerated to a straight line velocity of 40 m/s and the parachute deployment handle activated using a static line attached to a drogue chute. Speed of opening is less than 5 seconds Test 1 Test 2	Illarsaz	07.04.2010 17.06.2010	OK OK
<b>5. Interaction and stability test (piloted) - ref. C</b> a the emergency parachute is deployed from a paraglider in normal straight flight. b the pilot shall take no action while the behaviour of the parachute and paraglider are observed 200 metres. c the pilot take action while the behaviour of the parachute and paraglider are observed 200 metres.			not available  not available  not available

The model described is in conformity with the flight and load tests carried out by Air Turquoise SA.



For Air Turquoise SA

  
 Alain Zoller

**Air Turquoise SA**  
 Route du Pré-au-Comte 8  
 Case postale 10  
 CH- 1844 Villeneuve  
 email: info@para-test.com



homepage: www.para-test.com

**Weather data, ref. 3 and B**

Date / place	hPa	wind	temp	humidity
Villeneuve, September 11, 2009	978.2	0 km/h	16°	63.4%
	<i>Corrected mass:</i> <b>82.74 kg</b>			
Villeneuve, September 13, 2010				
	<i>Corrected mass:</i> 980 hPa		2 km/h	16°
	<b>82.89 kg</b>			54.0%

**Reference**

A. At horizontal airspeed 8 m/s and vertical speed 1.5 m/s

B. Formula to be used for correcting the test mass ofr differences from ICAO standard atmosphere

$$m_{corr} := m_{dec} \cdot \frac{p \cdot T_0}{p_0 \cdot T}$$

Ground level atmospheric pressure at the test location: (p)

ICAO standard atmospheric pressure at MSL: (p<sub>0</sub>)

Ground level température at the test location: (T)

ICAO standard temperature at MSL: (T<sub>0</sub>)

Total weight in flight: (m<sub>dec</sub>)

Corrected mass: (m<sub>corr</sub>)

C. Only parachute with controls for steering and landing flare



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Route du Pré-au-Comte 8

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 68

email: info@para-test.com

homepage: www.para-test.com

