

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

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

**Certification number:** EP 084.2013  
**Type/model:** SOS light 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	17.02.2009	OK
<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 Villeneuve	10.01.2008 25.01.2008	< 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 Villeneuve Villeneuve Villeneuve	10.01.2008 10.01.2008 25.01.2008 25.01.2008	Stable 5.31 m/s Stable 5.31 m/s
<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	France France	30.12.2006 30.12.2006	OK, done by Aerotests OK, done by Aerotests
<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

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## Weather data, ref. 3 and B

Date / place	hPa	wind	temp	humidity
10/01/2008 Villeneuve	975.5	0	4.6°	71.2%
	Corrected mass:	<b>85.9 kg</b>		
25/01/2008 Villeneuve	991.7	0	3.4°	83.9%
	Corrected mass:	<b>87.7 kg</b>		

## 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

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

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

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

Ground level temperature 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



## Air Turquoise SA

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ISO 9001  
 BUREAU VERITAS  
 Certification

