



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

**Manufacturer** Ozone Gliders  
**Address** 2, Queens Drive  
 LA46LN  
 UK

**Certification number:** EP 036.2010  
**Type/model:** Angel 37  
**Total weight in flight:** 140 kg

Description of tests	place:	date:	result:
<b>1. Deployment system strength test</b> A load of 700 N between each components	Villeneuve	17.12.10	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	10.05.10 24.06.10	2.82 s 2.88 s
<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	10.05.10 10.05.10 24.06.10 24.06.10	ok 5.3 m/s ok 5.1 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	Collombey Collombey	10.08.10 10.08.10	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

*Randi Eriksen*  
 Randi Eriksen

**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
10.05.10 / Villeneuve	<b>954</b>	0 m/s	16°	65.0%
	Corrected mass: 131.36 kg			
24.06.10 / Villeneuve	<b>966</b>	0 m/s	15°	71.0%
	Corrected mass: 133.47 kg			

## 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



## Air Turquoise SA

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

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