

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

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

**Certification number:** EP 092.2013  
**Type/model:** Angel 25  
**Total weight in flight:** 90 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	Villeneuve	08/10/2013	3.54 sec
Opening time	Villeneuve	08/10/2013	3.08 sec
<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	Villeneuve	08/10/2013	Stable
Sink rate 1	Villeneuve	08/10/2013	5.35 m/sec
Stability 2	Villeneuve	08/10/2013	Stable
Sink rate 2	Villeneuve	08/10/2013	5.5 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. Speed of opening is less than 5 seconds and shock not exceeded 15g			
Test 1	Illarsaz		
Test 2	Illarsaz		
Test 3	Illarsaz		
<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 all points of the standard EN 12491:2001



For Air Turquoise SA

  
 Alain Zoller

Revision 01: 13.06.2019

**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, 08.10.2013	969.2	0	14°	79.0%
	Corrected mass:	<b>91.19 kg</b>		
Villeneuve, 08.10.2013	969.5	0	16°	74.0%
	Corrected mass:	<b>90.58 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

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

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

For Air Turquoise SA

Alain Zöller

