para-test.com
paragliding by air turquoise

Air Turquoise SA
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Flight and Load test report - EN 12491:2001

Manufacturer	Windtech Paragliders Mr. Cañada Gabriel	**Certification number:**	EP 067.2012
Address	Francisco Rodríguez, 7 33201 GIJON - Asturias Spain	**Type/model:** **Total weight in flight:**	WindSOS Lite L 115 kg

Description of tests	*place:*	*date:*	*result:*
1. Deployment system strength test			
A load of 700 N between each components	Villeneuve	03.02.2010	ok
2. Speed of opening test - ref. A (2 times)			
Time from the instant of free drop until a load of 200 N is sustained			
Opening time	Villeneuve	19.04.2010	< 5 seconds
Opening time	Villeneuve	10.05.2010	< 5 seconds
3. Descent rate and stability test - ref. A and B (2 times)			
The paraglider is released as the parachute begins to open, minimum 100 m descent.			
Stability 1	Villeneuve	19.04.2010	Stable
Sink rate 1	Villeneuve	19.04.2010	5.4 m/sec
Stability 2	Villeneuve	10.05.2010	Stable
Sink rate 2	Villeneuve	10.05.2010	5.47 m/sec
4. Strength test 40 m/s opening shock (2 times)			
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	12.09.2012	ok
Test 2	Illarsaz	12.09.2012	ok
5. Interaction and stability test (piloted) - ref. C			
a the emergency parachute is deployed from a paraglider in normal straight flight.			not available
b the pilot shall take no action while the behaviour of the parachute and paraglider are observed 200 metres.			not available
c the pilot take action while the behaviour of the parachute and paraglider are observed 200 metres.			not available

The model described is in conformity with all points of the standard EN 12491:2001

For Air Turquoise SA

Alain Zoller

Air Turquoise SA
Route du Pré-au-Comte 8
Case postale 10
CH- 1844 Villeneuve

ISO 9001 BUREAU VERITAS Certification

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Weather data, ref. 3 and B

Date / place	hPa	wind	temp	humidity
Villeneuve, 19.04.2010	**966.2**	1 km/h	19°	74.0%
Corrected mass:	**108.16**			
Villeneuve, 10.05.2010	**954**	2 km/h	16°	68.0%
Corrected mass:	**107.90**			

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: (po)
Ground level température at the test location: (T)
ICAO standard temperature at MSL: (To)
Total weight in flight: (mdec)
Corrected mass: (mcorr)

C. Only parachute with controls for steering and landing flare

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