



Flight and Load test report - EN 12491:2001

Manufacturer Finsterwalder GmbH / Charly Produkte
Address Am Osterösch 3
 87637 Seeg
 Germany

Certification number: EP 027.2010
Type/model: Expert 100
Total weight in flight: 100 kg

Description of tests	place:	date:	result:
1. Deployment system strength test A load of 700 N between each components	Villeneuve	20.09.2010	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 Opening time	Villeneuve	24.06.2010 07.07.2010	< 5 seconds < 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 Sink rate 1 Stability 2 Sink rate 2	Villeneuve	24.06.2010 24.06.2010 07.07.2010 07.07.2010	Stable 5.0 m/sec Stable 4.9 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 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	10.08.2010 10.08.2010	OK OK
5. Interaction and stability test (piloted) - ref. C 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, 24.06.2010	966 hPa	0 km/h	18°	67.0%
	Corrected mass:	94.35		
Villeneuve, 07.07.2010	969 hPa	0 km/h	21°	53.0%
	Corrected mass:	93.68		

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 off 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: (p₀)

Ground level temperature at the test location: (T)

ICAO standard temperature at MSL: (T₀)

Total weight in flight: (m_{dec})

Corrected mass: (m_{corr})

C. Only parachute with controls for steering and landing flare



For Air Turquoise SA

Alain Zoller

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

ISO 9001
BUREAU VERITAS
Certification

