



Flight and Load test report - EN 12491:2001

Manufacturer FG-PLUS d.o.o.
Address Pot na Crno 30
 1217 Vodice
 Slovenia

Certification number: EP 116.2014
Type/model: FG 31
Total weight in flight: 90 kg

Description of tests	place:	date:	result:
1. Deployment system strength test A load of 700 N between each components	Villeneuve	19.06.2014	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 Villeneuve	28.11.2014 21.11.2014	2.4 sec 4.36 sec
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 Villeneuve Villeneuve Villeneuve	28.10.2014 21.11.2014 28.10.2014 21.11.2014	Stable 5 m/sec Stable 5.43 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 Test 2	Illarsaz Illarsaz	24.10.2014 24.10.2014	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 all points of the standard EN 12491:2001



Air Turquoise SA
 Route du Pré-au-Comte 8
 Case postale 10
 CH- 1844 Villeneuve
 email: info@para-test.com

For Air Turquoise SA

Alain Zoller



homepage: www.para-test.com

Weather data, ref. 3 and B

Date / place	hPa	wind	temp	humidity
Villeneuve, 28.10.2014	973.6	0 km/h	10°	65.0%
	Corrected mass:	88.01		
Villeneuve, 21.11.2014	971	0 km/h	6°	80.0%
	Corrected mass:	89.03		

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: (p₀)

Ground level température 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



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

ALF. I. TF Testing center
 Alain Zoller

 www.para-test.com

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