

Flight and Load test report - EN 12491:2001

Manufacturer Gradient

Address

Plzenská 221/130 150 00 PRAHA 5 Czech Republic

Certification number:

EP 060.2012

Type/model:

GRP1 XL

Total weight in flight:

130 kg

Description of tests	place:	date:	result:
1. Deployment system strength test	praco.	uuto.	70001.
A load of 700 N between each components	Villeneuve	30.11.2010	ок
, rioda di rod in dalli			
2. Speed of opening test - ref. A (2 times)			
Time from the instant of free drop until a load	Villeneuve		
of 200 N is sustained	Villeneuve		
Opening time		08.10.2010	< 5 seconds
Opening time		19.11.2010	< 5 seconds
3. Descent rate and stability test - ref. A and B (2 times)			
The paraglider is released as the parachute	Villeneuve		
begins to open, minimum 100 m descent.			
Stability 1		08.10.2010	
Sink rate 1		08.10.2010	5.3 m/sec
Stability 2		19.11.2010	Stable
Sink rate 2		19.11.2010	4.93 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			9.0
parachute deployment handle activated using	Illarsaz		
a static line attached to a drogue chute. Speed			
of opening is less than 5 seconds			
Test 1		01.07.2009	
Test 2		07.04.2010	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 the flight and load tests carried out by Air Turquoise SA.









For Air Turquoise SA

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Air Turquoise SA

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Weather data, ref. 3 and B

Date / place	hPa	wind	temp	humidity
Villeneuve, September 09, 2010	972	0 km/h	11°	54.7%
Corrected r	mass: 126.46		•	
Villeneuve, Novenber 11, 2010				
Corrected r	mass: 964.5	0 km/h	8°	61.1%
	126.83			•

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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