

Flight and Load test report - EN 12491:2001

Manufacturer High Adventure AG
Address Wiesenbergstrasse 10
 6383 Dallenwil
 Switzerland

Certification number: EP 101.2013
Type/model: Beamer 3 light
Total weight in flight: 130 kg

| Description of tests | place: | date: | result: |
|--|--|--|--|
| 1. Deployment system strength test A load of 700 N between each components | Villeneuve | 05.07.2010 | 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 Villeneuve | 02.05.2013 08.05.2103 | < 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 Villeneuve Villeneuve Villeneuve | 02.05.2013 02.05.2013 08.05.2013 08.05.2013 | Stable 3.85 m/s Stable 4.01 m/s |
| 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 | Collombey Collombey | 06.08.2013 06.08.2013 | 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. | Villeneuve Villeneuve Villeneuve | 02.05.2013 08.05.2013 02.05.2013 08.05.2013 02.05.2013 08.05.2013 | OK OK OK |

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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Weather data, ref. 3 and B

| Date / place | hPa | wind | temp | humidity |
|------------------------|--------------|------|------|----------|
| 02/05/2013 Villeneuve | 963.4 | 2 | 15 | 78.0% |
| <i>Corrected mass:</i> | 123.6 | | | |
| 08/05/2013 Villeneuve | 963 | 0 | 14 | 74.0% |
| <i>Corrected mass:</i> | 123.9 | | | |

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: (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



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