

Flight and Load test report - EN 12491:2001

Manufacturer skywalk GmbH & Co. KG
Address Bahnhofstraße 110
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 Germany

Certification number: EP 050.2011
Type/model: Pepper2 Light M
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 | 17.02.2009 | 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 | 31.03.2009 12.06.2009 | < 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 | 31.03.2009 31.03.2009 12.06.2009 12.06.2009 | Stable 5.034 m/s Stable 4.78 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 | Monthey Monthey | 17.09.2008 18.03.2009 | 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

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Weather data, ref. 3 and B

| Date / place | hPa | wind | temp | humidity |
|-----------------------|-----------------|------|------|----------|
| 31/03/2009 Villeneuve | 968 | 0 | 8 | 53.0% |
| | Corrected mass: | | | |
| | 97.91 | | | |
| 12/06/2009 Villeneuve | 977 | 0 | 16 | 55.0% |
| | Corrected mass: | | | |
| | 96.09 | | | |

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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