

## Flight and Load test report - EN 12491:2001

**Manufacturer** Gin Gliders Inc.  
**Address** 285-1 Galdam-Ri, Mohyun-Myun,  
YongIn-City, Kyunggi-Do  
449-855 Korea

**Certification number:** EP 038.2011  
**Type/model:** Yeti Rescue #60  
**Total weight in flight:** 220 kg

| Description of tests   | place:   | date:  | result:   |
|--|--|--|---|
| <b>1. Deployment system strength test</b><br>A load of 700 N between each components   | Villeneuve   |  | OK  |
| <b>2. Speed of opening test - ref. A (2 times)</b><br>Time from the instant of free drop until a load of 200 N is sustained<br>Opening time<br>Opening time  | Villeneuve<br>Villeneuve                             | 19.01.2011<br>19.01.2011                             | < 5 seconds<br>< 5 seconds                              |
| <b>3. Descent rate and stability test - ref. A and B (2 times)</b><br>The paraglider is released as the parachute begins to open, minimum 100 m descent.<br>Stability 1<br>Sink rate 1<br>Stability 2<br>Sink rate 2   | Villeneuve<br>Villeneuve<br>Villeneuve<br>Villeneuve | 19.01.2011<br>19.01.2011<br>19.01.2011<br>19.01.2011 | Stable<br>5.21 m/s<br>Stable<br>5.14 m/s                |
| <b>4. Strength test 40 m/s opening shock (2 times)</b><br>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<br>Test 1<br>Test 2  | Illarsaz<br>Illarsaz                                 | 26.01.2011<br>26.01.2011                             | OK<br>OK  |
| <b>5. Interaction and stability test (piloted) - ref. C</b><br>a the emergency parachute is deployed from a paraglider in normal straight flight.<br>b the pilot shall take no action while the behaviour of the parachute and paraglider are observed 200 metres.<br>c the pilot take action while the behaviour of the parachute and paraglider are observed 200 metres. |  |  | not available<br><br>not available<br><br>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

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ISO 9001  
BUREAU VERITAS  
Certification



homepage: www.para-test.com

## Weather data, ref. 3 and B

| Date / place          | hPa                    | wind          | temp | humidity |
|-----------------------|------------------------|---------------|------|----------|
| 19/01/2011 Villeneuve | 972.5                  | 0 km/h        | 0°   | 69.0%    |
|                       | <i>Corrected mass:</i> | <b>222.75</b> |      |          |
| 19/01/2011 Villeneuve | 972.5                  | 0 km/h        | 1°   | 67.0%    |
|                       | <i>Corrected mass:</i> | <b>221.94</b> |      |          |

## 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: (p<sub>0</sub>)

Ground level température at the test location: (T)

ICAO standard temperature at MSL: (T<sub>0</sub>)

Total weight in flight: (m<sub>dec</sub>)

Corrected mass: (m<sub>corr</sub>)

C. Only parachute with controls for steering and landing flare



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