

## 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 020.2009  
**Type/model:** YETI # 40  
**Total weight in flight:** 120 kg

Description of tests	place:	date:	result:
<b>1. Deployment system strength test</b> A load of 700 N between each components	Villeneuve	17.02.2009	OK
<b>2. Speed of opening test - ref. A (2 times)</b> Time from the instant of free drop until a load of 200 N is sustained Opening time Opening time	Villeneuve Villeneuve	09.01.2009 01.04.2009	< 5 seconds < 5 seconds
<b>3. Descent rate and stability test - ref. A and B (2 times)</b> 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	09.01.2009 09.01.2009 01.04.2009 01.04.2009	Stable 5.396 m/s Stable 5.13 m/s
<b>4. Strength test 40 m/s opening shock (2 times)</b> 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	18.03.2009 18.03.2009	OK OK
<b>5. Interaction and stability test (piloted) - ref. C</b> 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
09/01/2009 Villeneuve	1027.1	0	1	67.0%
<i>Corrected mass:</i>		<b>127.85</b>		
01/04/2009 Villeneuve	962	0	6	58.0%
<i>Corrected mass:</i>		<b>117.6</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 off 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 temperature 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



## Air Turquoise SA

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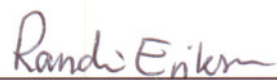
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For Air Turquoise SA



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ISO 9001  
BUREAU VERITAS  
Certification

