

LOAD TEST REPORT

The model describe hereafter is in conformity with the load tests carried out by:
Air Turquoise, official test laboratory of Switzerland

Manufacturer:	Apco Aviation Ltd.
Model:	Mayday Light
Type:	16
Maximum weight in flight:	100 kg

LOAD TEST

The emergency parachute system has not suffered any permanent deformation or failure of the primary structure.

Date	Place	Open shock	Speed of opening	remark
25.01.2008	Collombey	40 m/s	<5 seconds	Air Glacier, helicopter

Best regards,



Randi Eriksen

Flight and Load test report - EN 12491:2001

Manufacturer APCO Aviation Inc.
Address 7, Chalamish St., Industrial park
 38900 Caesarea
 Israel

Certification number: EP 021.2009
Type/model: MD SLT 18
Total weight in flight: 115 kg

Description of tests	place:	date:	result:
1. Deployment system strength test A load of 700 N between each components	Villeneuve	05.08.2009	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 21.04.2009	< 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 21.04.2009 21.04.2009	Stable 5.10 m/s Stable 5.07 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	01.07.2009 01.07.2009	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

Alain Zoller

Air Turquoise SA
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 Case postale 10
 CH- 1844 Villeneuve
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homepage: www.para-test.com



Weather data, ref. 3 and B

Date / place	hPa	wind	temp	humidity
31/03/2009 Villeneuve	968	0	5	53.0%
	<i>Corrected mass:</i>			
	114			
21/04/2009 Villeneuve	971.4	0	18	47.0%
	<i>Corrected mass:</i>			
	109.11			

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: (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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For Air Turquoise SA

Alain Zoller

ISO 9001
BUREAU VERITAS
Certification



Flight and Load test report - EN 12491:2001

Manufacturer APCO Aviation Inc.
Address 7, Chalamish St., Industrial park
 38900 Caesarea
 Israel

Certification number: EP 022.2009
Type/model: MD SLT 20
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	05.08.2009	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 21.04.2009	< 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 21.04.2009 21.04.2009	Stable 4.48 m/s Stable 5.15 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	01.07.2009 01.07.2009	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.



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Weather data, ref. 3 and B

Date / place	hPa	wind	temp	humidity
31/03/2009 Villeneuve	968	0	5	53.0%
	<i>Corrected mass:</i>			
	125			
21/04/2009 Villeneuve	971.4	0	18	47.0%
	<i>Corrected mass:</i>			
	122.9			

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 of 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: (p₀)

Ground level temperature 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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