



RG 061.2012

Manufacturer / Hersteller _____ APCO Aviation Inc.

Model / Modell _____ MD 18 LT

Year and month of manufacturing
Jahr und Monat der Fertigung

Max load / Max Anhängelast _____ 120 kg

Area / Fläche _____ 30.4 m²

Weight of the model / Gewicht Des Modells _ 1.922gr

Gesamtlänge (Ende Tragegurt bis zur Oberseite der nicht ausgelösten Kappe)
Total length (end of riser to upper side of non-deployed canopy) _____ 515 cm

Warning: nicht verwendbar für Gebrauch mit
Geschwindigkeiten von mehr als: **32 m/s, 115 km/h**
Warning: do not use at speeds exceeding:
Read manual before operation!
Vor Gebrauch Betriebsanweisung lesen!

Serial number / Seriennummer:

para-test.com



paragliding by air turquoise

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Flight and Load test report - LTF It. 2. DV LuftGerPV §1, Nr. 7 c

Manufacturer APCO Aviation Inc.
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 38900 Caesarea
 Israel

Certification number: RG 061.2012
Type/model: MD 18 LT
Total weight in flight: 120 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	Villeneuve	29.09.2011	< 5 seconds
Opening time	Villeneuve	28.02.2012	< 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	Villeneuve	28.02.2012	Stable
Sink rate 1	Villeneuve	28.02.2012	6.09 m/sec
Stability 2	Villeneuve	14.05.2012	Stable
Sink rate 2	Villeneuve	14.05.2012	6 m/sec
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	Illarsaz	27.11.2011	OK
Test 2	Illarsaz	21.09.2011	OK
Test 3	Illarsaz	14.06.2012	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
28/02/2012 Villeneuve	980	0	4	84.0%
<i>Corrected mass:</i>		109.59		
14/05/2012 Villeneuve	977	2	10	71.0%
<i>Corrected mass:</i>		106.83		

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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For Air Turquoise SA

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ISO 9001
BUREAU VERITAS
Certification

