



paragliding by air turquoise

REPORT FLIGHT AND STRUCTURE TEST RESCUE

EN 12491 | 2001 | NfL II 91/09

Manufacturer Parashop
Address Pier Gasteiger
 Hütte 30
 6345 Kössen
 Austria

Certification number: EP 224.2018
Type/model: Q2 160 light
Total weight in flight: 140 kg
Serial number STRENGTH 2012-0035
Serial number FLIGHT 2015-38-0212

Measurement of Flight test rescue (5kg Tension)

Center Line mm	5000
Main Line 1 mm	5140
Main Line 2 mm	5120 (4x)
Number of cell:	24
Tolerance mm	25
Weight grame	1640

TESTS	place:	date:	result:
1. Deployment system strength test A load of 700 N between each components	Villeneuve	16.03.2015	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	09.03.2015 08.04.2015	3.2 sec 3.12 sec
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	09.03.2015 09.03.2015 08.04.2015 08.04.2015	Stable 5.39 m/sec Stable 5.5 m/sec
4. Strength test 40 m/s opening shock The drop test device is accelerated to a straight line velocity of 40 m/s. Speed of opening is less than 5 seconds and shock not exceeded 15g Test 1 Test 2 Test 3	Illarsaz	03.02.2012 03.02.2012 02.04.2012	OK 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
6. Connecting strap Mininum load capacity of 2400 daN	Villeneuve	09.08.2012	2857.3 kg

REPORT FLIGHT AND STRUCTURE TEST RESCUE

EN 12491 | 2001 | NfL II 91/09

Manufacturer Parashop
Pier Gasteiger

Certification number:
Type/model:

EP_224.2018
Q2 160 light

Weather data, ref. 3 and B

Date / place	hPa	wind	tem	humidity
Villeneuve, March 9, 2015	980.7	0 km/h	10°	62.0%
	137.9 kg			
Villeneuve, April 8, 2015	984.4	1 km/h	14°	41.0%
	136.96 kg			

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

$$m_{corr} := m_{dec} \cdot \frac{p \cdot T_0}{p_0 \cdot T}$$

Ground level atmospheric pressure at the test location: (p)

ICAO standard atmospheric pressure at MSL: (p₀)

Ground level temperature at the test location: (T)

ICAO standard temperature at MSL: (T₀)

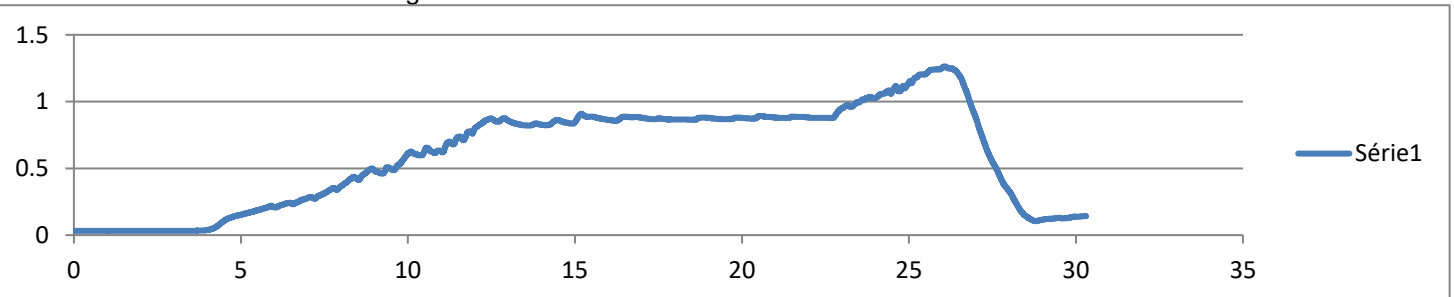
Total weight in flight: (m_{dec})

Corrected mass: (m_{corr})

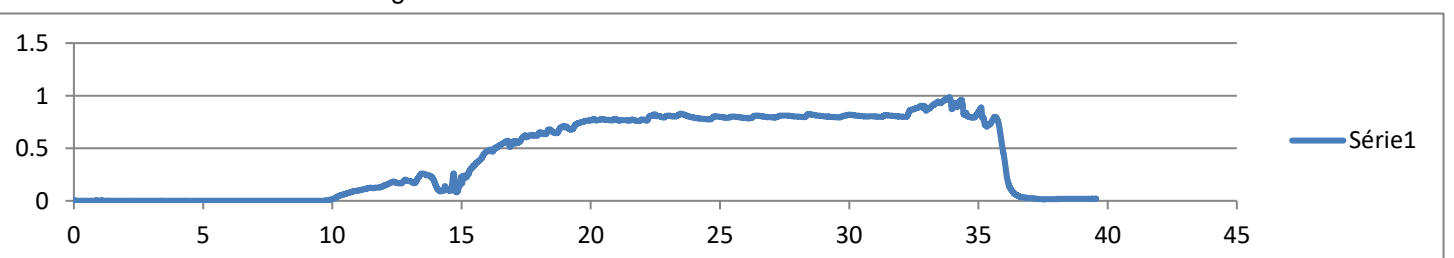
C. Only parachute with controls for steering and landing flare

GRAPHIQUE concerning Nfl II 91/09 "§ 6.1.8 inner container"

Max load attachment 1 = 126.3 kg



Max load attachment 2 = 98.7 kg





paragliding by air turquoise

REPORT FLIGHT AND STRUCTURE TEST RESCUE

EN 12491 | 2001 | NfL II 91/09

Manufacturer **Parashop**
Pier Gasteiger

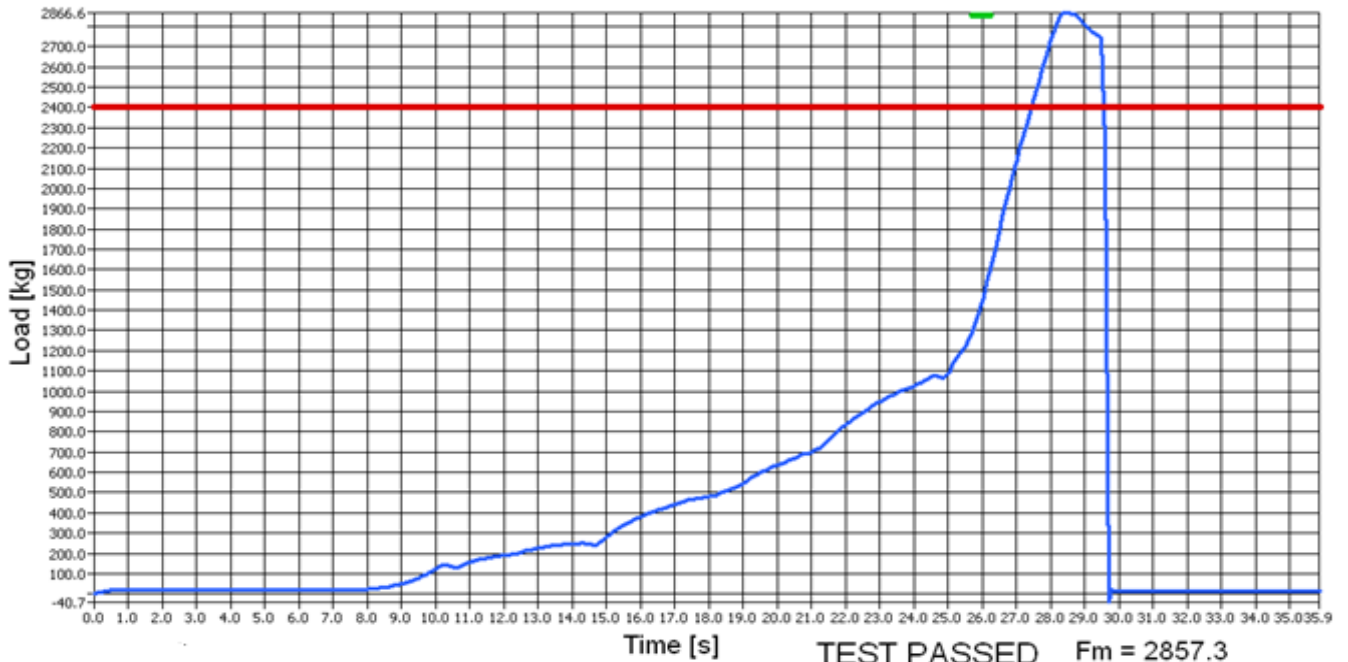
Certification number:
Type/model:

EP_224.2018
Q2 160 light

GRAPHIQUE concerning Nfl II 91/09 "§ 6.1.4 connecting strap"
Max load = 2857.3 kg

Air Turquoise Homologations LOAD DIAGRAM

Alain Zoller
Rue de la Poterlaz 6, CP-10
CH-1844 Villeneuve
079 202 52 30 / info@airturquoise.ch



Test Load [kg] = 2400

TEST PASSED Fm = 2857.3
9.8.2012 - 8:33

measurement with ShockRecord
(c) 2006 Jonas Buchli (jonas@buchli.org)

For Air Turquoise SA

Alain Zoller, managing director

Villeneuve, 28.06.2018