

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 126.2015
Type/model: Parashop / Q2/120
Total weight in flight: EN 105 kg / LTF 120 kg
Serial number STRENGTH 2012-0025
Serial number FLIGHT 2015-34-0124

Measurement of Flight test rescue (5kg Tension)

| | |
|------------------|-----------|
| Center Line mm | 4550 |
| Main Line 1 mm | 4250 |
| Main Line 2 mm | 4230 (4x) |
| Number of cell: | 20 |
| Tolerance mm | 25 |
| Weight grame | 1375 |

| 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 | 3.88 sec 3.2 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 5.49 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 |

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Weather data, ref. 3 and B

| Date / place | hPa | wind | tem | humidity |
|---------------------------|------------------|--------|-----|----------|
| Villeneuve, March 9, 2015 | 980.7 | 0 km/h | 13° | 62.0% |
| | 102.34 kg | | | |
| Villeneuve, April 8, 2015 | 984.4 | 1 km/h | 12° | 43.0% |
| | 103.8 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 ofr 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 température at the test location: (T)

ICAO standard temperature at MSL: (T₀)

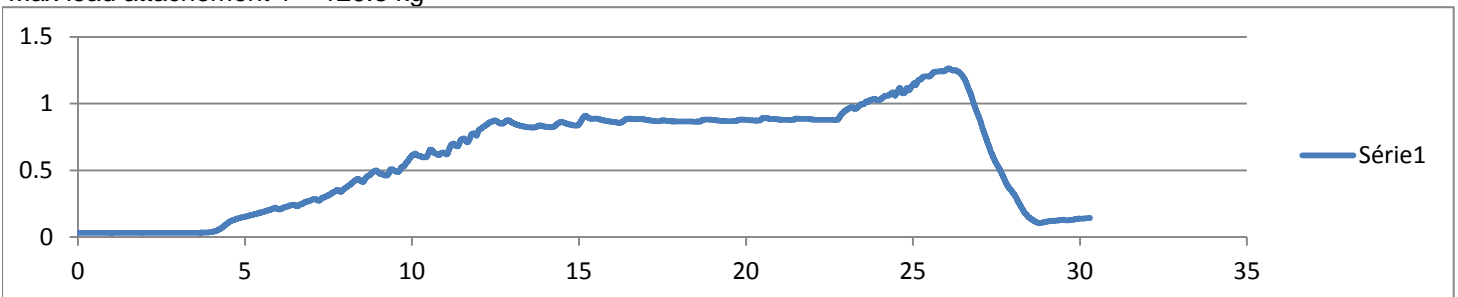
Total weight in flight: (m_{dec})

Corrected mass: (m_{corr})

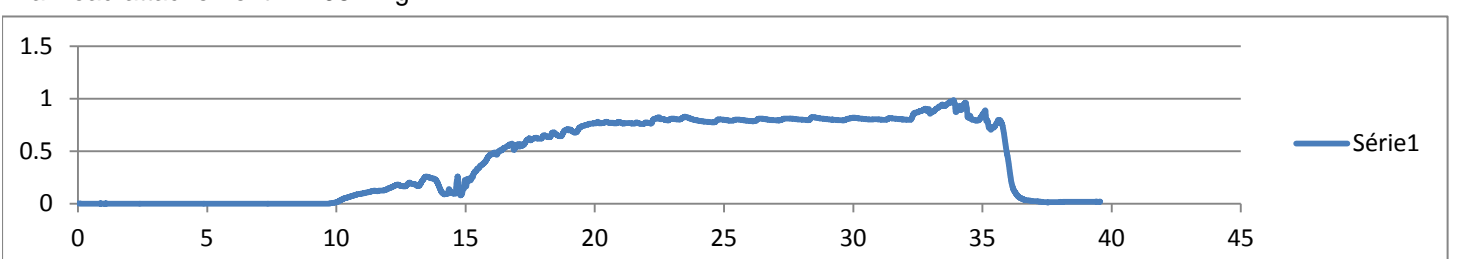
C. Only parachute with controls for steering and landing flare

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

Max load attachement 1 = 126.3 kg



Max load attachement 2 = 98.7 kg





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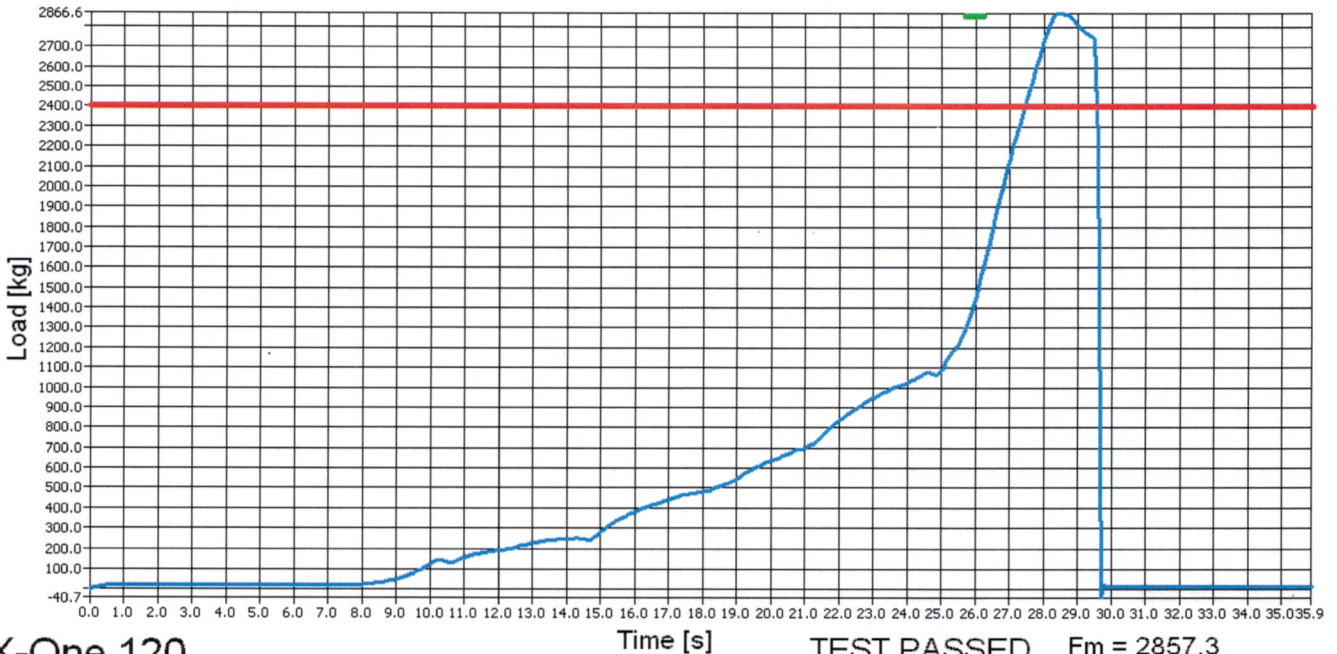
Certification number:
Type/model:

EP 126.2015
Parashop / Q2/120

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

Air Turquoise Homologations LOAD DIAGRAM

Alain Zoller
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CH-1844 Villeneuve
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X-One 120

Test Load [kg] = 2400

TEST PASSED

Fm = 2857.3

9.8.2012 - 8:33

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



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9.06.2015
Villeneuve,