



REPORT FLIGHT AND STRUCTURE TEST RESCUE

EN 12491 | 2001 | NfL II 91/09

Manufacturer VITAL PARACHUTE INC.
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 596 Cheonho-daero, Gwnagjin
 Seoul 143-848 / Korea Republic

Certification number:	<u>EP 193.2017</u>
Type/model:	<u>Octagon2-170</u>
Total weight in flight:	<u>170 kg</u>
Serial number STRENGTH	<u>VPR-OTG141138</u>
Serial number FLIGHT	<u>VPR-OTG141038</u>

Measurement of Flight test rescue (5kg Tension)

Number of cell:	24
Total length l cm	730
Tolerance mm	25 mm
Weight grame	2650

TESTS	place:	date:	result:
1. Deployment system strength test A load of 700 N between each components	Villeneuve	26.11.2014	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	18.11.2014 21.11.2014	4.12 sec 4.89 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	18.11.2014 21.11.2014 18.11.2014 21.11.2014	Stable 4.9 m/sec Stable 5.1 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. Speed of opening is less than 5 seconds and shock not exceeded 15g Test 1 Test 2 Test 3	Illarsaz	20.11.2014 12.12.2014 12.12.2014	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			

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Weather data, ref. 3 and B

Date / place	hPa	wind	tem	humidity
Villeneuve, November 18, 2014	960	0 km/h	9.6°	78.0%
Corrected mass:		164.14 kg		
Villeneuve, November 21, 2014	969	0 km/h	8°	80.0%
Corrected mass:		166.62 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)

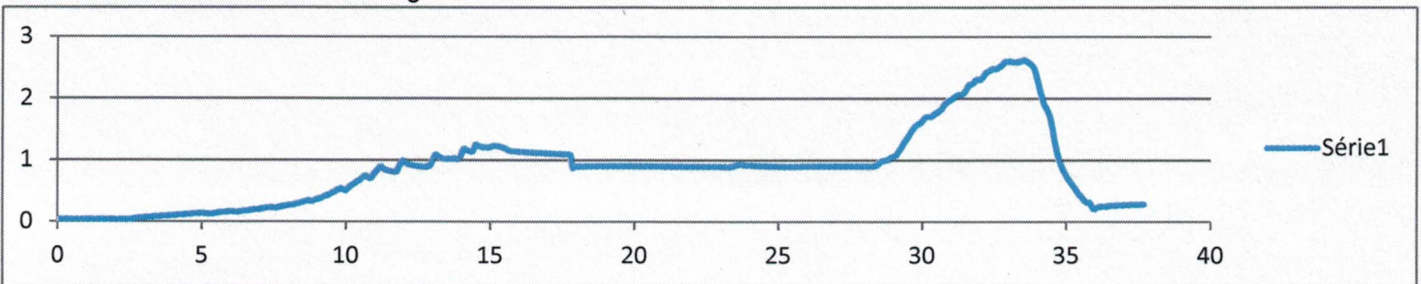
Total weight in flight: (m_{dec})

Corrected mass: (m_{corr})

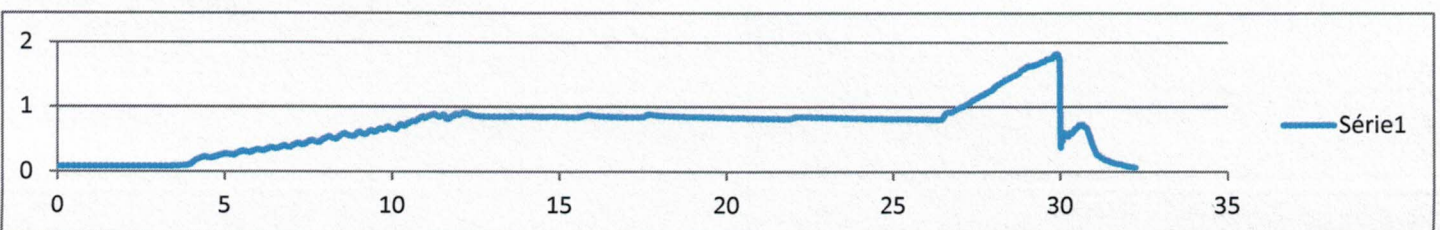
C. Only parachute with controls for steering and landing flare

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

Max load attachement 1 = 263.9 kg



Max load attachement 2 = 182.4 kg



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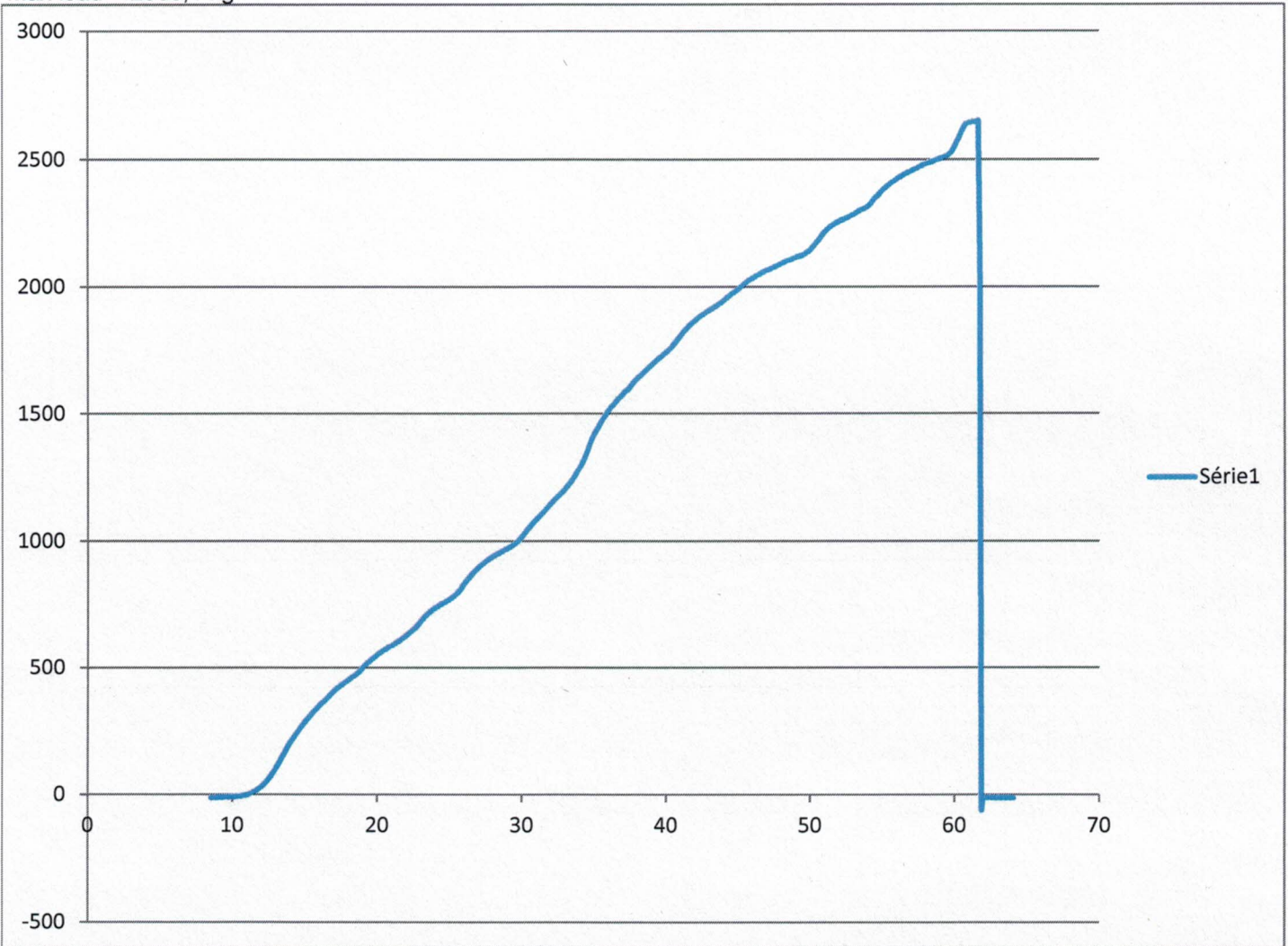
EP 193.2017

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GRAPHIQUE concerning Nfl II 91/09 "§ 6.1.4 connecting strap"

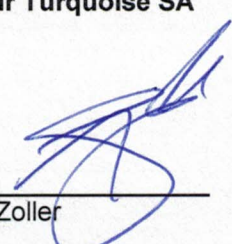
Max load = 2656,1 kg



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For Air Turquoise SA


Alain Zoller

Villeneuve, 07.09.2017