



REPORT FLIGHT AND STRUCTURE TEST RESCUE

EN 12491 | 2001 | NfL II 91/09

Manufacturer VITAL PARACHUTE INC.
Address 4th floor, Samjin bldg.
 596 Cheonho-daero, Gwnagjin
 Seoul 143-848 / Korea Republic

Certification number:	EP 113.2014
Type/model:	Octagon 32L (M)
Total weight in flight:	100 kg
Serial number STRENGTH	VPR-OTG140218
Serial number FLIGHT	VPR-OTG140219

Measurement of Flight test rescue (5kg Tension)

Center Line mm	584
Main Line 1 mm	540
Main Line 2 mm	
Number of cell:	16
Tolerance mm	25 mm
Weight grame	1390 gr

TESTS	place:	date:	result:
1. Deployment system strength test A load of 700 N between each components	Villeneuve	17.02.2015	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	05.08.2014 28.08.2014	3.36 sec 3.85 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	05.08.2014 05.08.2014 28.08.2014 28.08.2014	Stable 5.00 m/sec Stable 5.26 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	06.08.2014 14.08.2014 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, August 05, 2014	968	0	20.1	76.0%
Corrected mass:		93.59 kg		
Villeneuve, August 28, 2014	970	0	16°	68.0%
Corrected mass:		94.32 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)

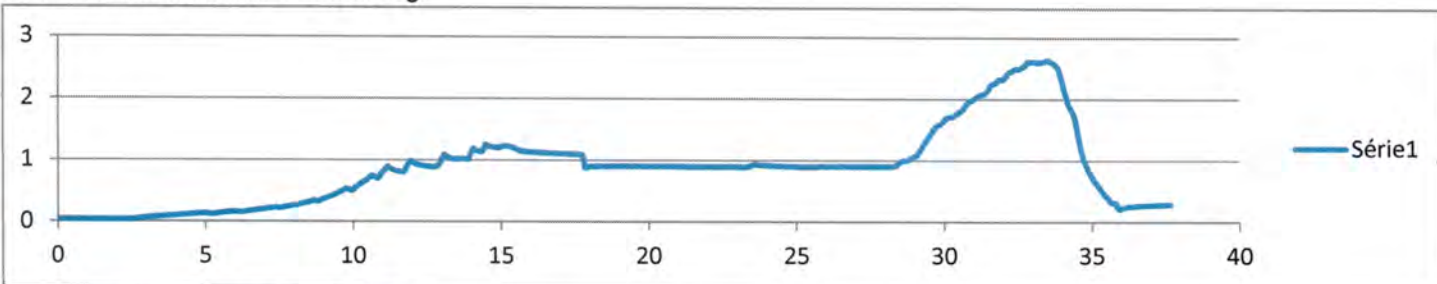
Total weight in flight: (m_{dec})

Corrected mass: (m_{corr})

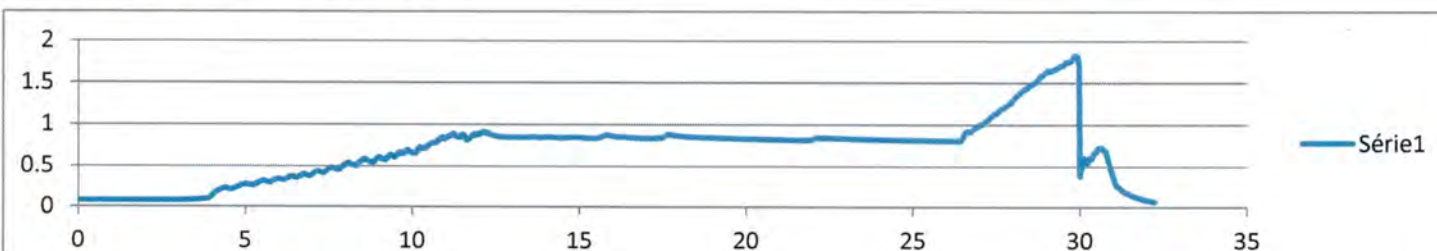
C. Only parachute with controls for steering and landing flare

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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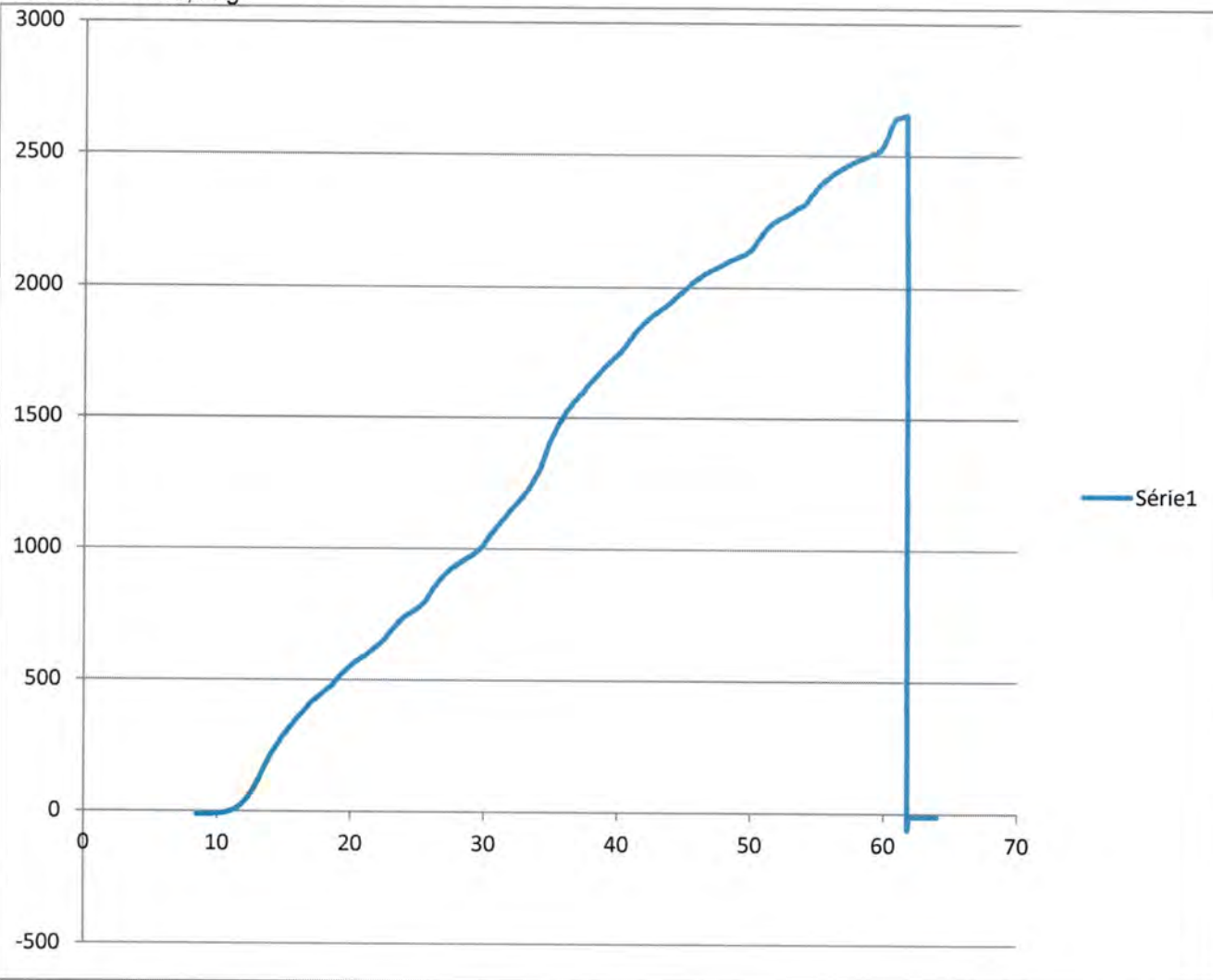
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GRAPHIQUE concerning Nfl II 91/09 "§ 6.1.4 connecting strap"
Max load = 2656,1 kg



Air Turquoise SA

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For Air Turquoise SA


Alain Zoller

Villeneuve, 17.02.2015