



paragliding by air turquoise

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 115.2014
Type/model: Octagon 45L (XL)
Total weight in flight: 140 kg
Serial number STRENGTH VPR-OTG141038
Serial number FLIGHT VPR-OTG141028

Measurement of Flight test rescue (5kg Tension)

Center Line mm	7065 cm
Main Line 1 mm	6540 cm
Main Line 2 mm	
Number of cell:	16
Tolerance mm	25 mm
Weight grame	1870

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	13.11.2014 18.11.2014	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	13.11.2014 18.11.2014 13.11.2014 18.11.2014	Stable 5.06 m/sec Stable 5.33 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 20.11.2014 20.11.2014	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 13, 2014	961.5	1.6 km/h	10.4	78.0%
Corrected mass:		134.81 kg		
Villeneuve, November 18, 2014	958	0	8.3	78.0%
Corrected mass:		135.52 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)

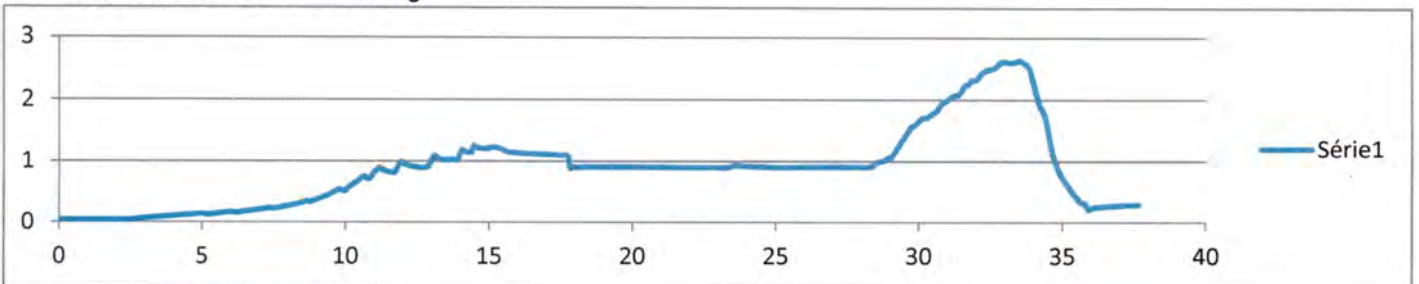
Total weight in flight: (m_{dec})

Corrected mass: (m_{corr})

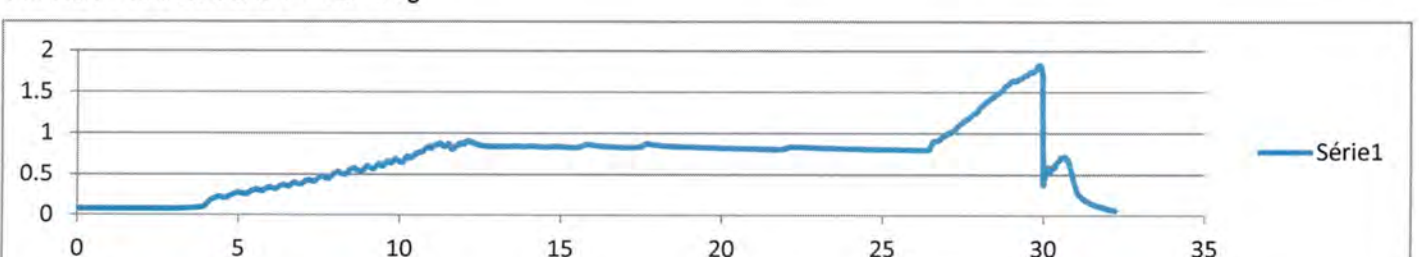
C. Only parachute with controls for steering and landing flare

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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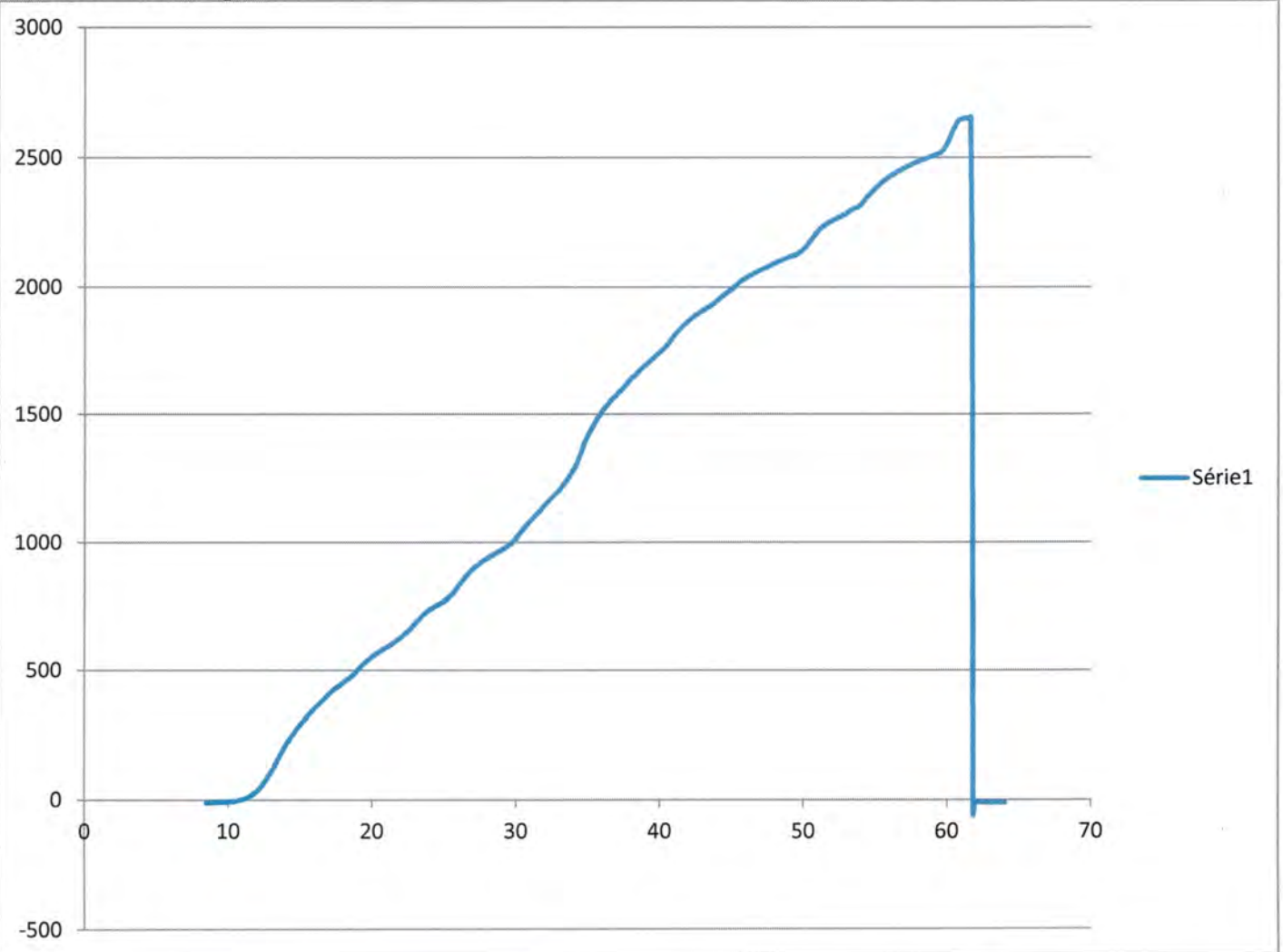
EP 115.2014

Type/model:

Octagon 45L (XL)

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


Max load = 2656,1 kg



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 Alain Zoller

Villeneuve, 17.02.2015