

# **REPORT FLIGHT AND STRUCTURE TEST RESCUE**

### EN 12491 |2001 | NfL II 91/09

# ManufacturerVITAL PARACHUTE INC.Address4th floor, Samjin bldg.

4th floor, Samjin bldg. 596 Cheonho-daero, Gwnagjin Seoul 143-848 / Korea Republic Certification number: Type/model: Total weight in flight: Serial number STRENGTH Serial number FLIGHT

EΡ	121	.20	15

Cires 110
110 kg
VPR-CRM140009
VPR-CRM140008

### Measurement of Flight test rescue (5kg Tension)

Center Line   mm Main Line 1   mm Main Line 2   mm	6085 cm 5301 cm
Number of cell:	16
Tolerance   mm	25 mm
Weight   grame	1739

TESTS		place:	date:	result:
1. Deployme	nt system strength test			
	A load of 700 N between each components	Villeneuve	17.02.2015	ОК
2. Speed of c	ppening 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	05.01.2015 05.01.2015	
3. Descent ra	te 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	Villeneuve	05.01.2015	
	Sink rate 1		05.01.2015	
	Stability 2		05.01.2015	
	Sink rate 2		05.01.2015	5.06 m/sec
4. Strength te	est 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	Illarsaz	06.02.2015	ОК
	Test 2		06.02.2015	ОК
	Test 3		06.02.2015	ОК
5. Interaction	and stability test (piloted) - ref. C			
	a the emergency parachute is deployed from a			
	paraglider in normal straight flight.			not available
	b the pilot shall take no action while the			
	behaviour of the parachute and paraglider are			
	observed 200 metres.			not available
	c the pilot take action while the behaviour of the			
	parachute and paraglider are observed 200			
	metres.			not available
6.Connecting	y strap			
	Mininum load capacity of 2400 daN			



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Weather data, ref. 3 and B

Date / place		hPa	wind	tem	humidity
Villeneuve, January 05, 2015		968	0	1	79.0%
	Corrected mass:	110.45 kg			
Villeneuve, January 05, 2015		972	0	5	71.0%
	Corrected mass:	109.51 kg			

#### Reference

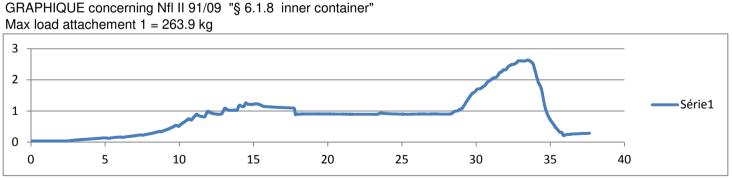
A. At horizontal airspeed 8 m/s and vertical speed 1.5 m/s

B. Formula to be used for correcting the test mass ofr differences from ICAO standard atmosphere

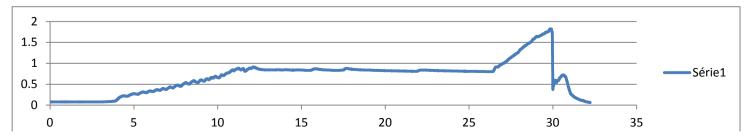
$$\mathbf{m}_{c \text{ orr}} \coloneqq \mathbf{m}_{dec} \cdot \frac{\mathbf{p} \cdot \mathbf{T}_{0}}{\mathbf{p}_{0} \cdot \mathbf{T}}$$

Ground level atmospheric pressure at the test location: (p) ICAO standard atmospheric pressure at MSL: (po) Ground level température at the test location: (T) ICAO standard temperature at MSL: (To) Total weight in flight: (mdec) Corrected mass: (mcorr)

C. Only parachute with controls for steering and landing flare









paragliding by air lurquoise

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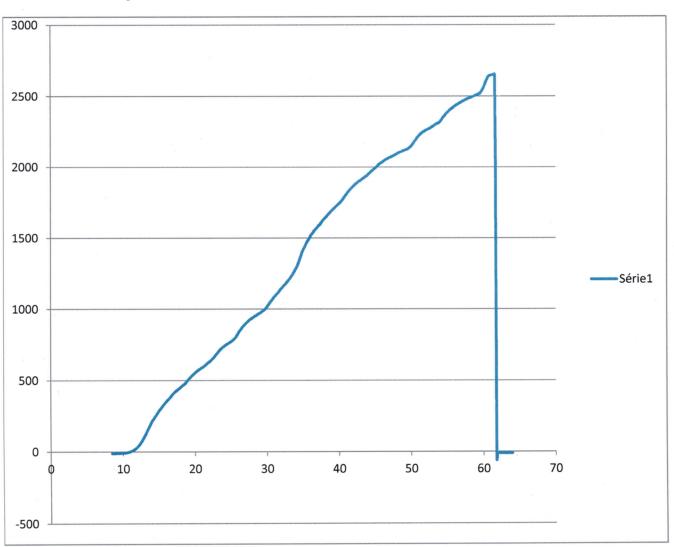
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info@para-test.com

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