

Air Turquoise SA Rte du Pré-au-Comte 8 | CH-1844 Villeneuve tel. +41 21 965 65 65 | mobile +41 79 202 52 30 info@para-test.com

REPORT FLIGHT AND STRUCTURE TEST RESCUE

EN 12491 |2001 | NfL II 91/09

VITAL PARACHUTE INC. Manufacturer **Address** 4th floor, Samjin bldg.

596 Cheonho-daero, Gwnagjin Seoul 143-848 / Korea Republic

Type/model: Total weight in flight: Serial number STRENGTH Serial number FLIGHT

Certification number:

EP 121.2015
Cires 110
110 kg
VPR-CRM140009
VPR-CRM140008

Measurement of Flight test rescue (5kg Tension)

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

TESTS		place:	date:	result:
1. Deployment s	ystem 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	Villeneuve		
	Opening time		05.01.2015	3.32 sec
3. Descent rate a	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		
	Sink rate 1		05.01.2015	
	Stability 2		05.01.2015	
	Sink rate 2		05.01.2015	5.06 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	Illarsaz	06.02.2015	OK
	Test 2		06.02.2015	OK
	Test 3		06.02.2015	OK
5. Interaction an	d stability test (piloted) - ref. C			
а	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
С	the pilot take action while the behaviour of the			
	parachute and paraglider are observed 200			
	metres.			not available
6.Connecting st	rap			
	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

$$m_{corr} := m_{dec} \cdot \frac{p \cdot T_0}{p_0 \cdot T}$$

Ground level atmospheric pressure at the test location: (p)

ICAO standard atmospheric pressure at MSL: (po)

Ground level température at the test location: (T)

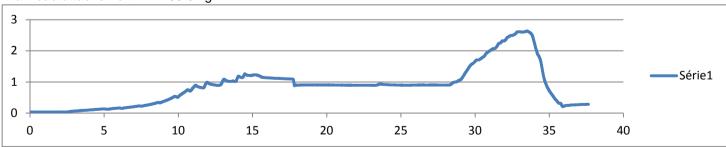
ICAO standard temperature at MSL: (To)

Total weight in flight: (mdec) Corrected mass: (mcorr)

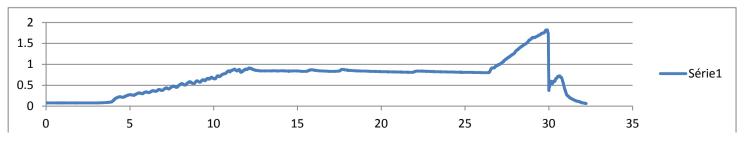
C. Only parachute with controls for steering and landing flare

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





paragliding by air furquoise

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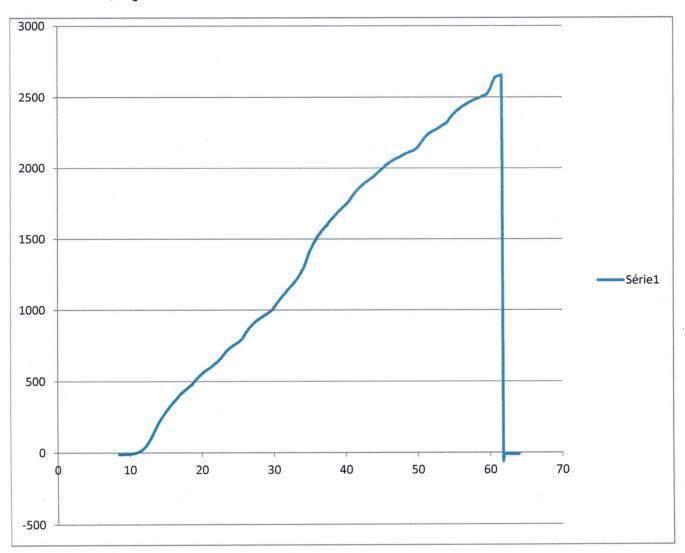
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Manufacturer VITAL PARACHUTE INC.

Certification number: Type/model:

EP 121.2015 Cires 110

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





Air Turquoise SA

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Villeneuve, 17.02.2015