

# REPORT FLIGHT AND STRUCTURE TEST RESCUE

EN 12491 | 2001 | NfL II 91/09

**Manufacturer** X-dream Fly  
**Address** Gerald Roschmann  
 Unterbach 9  
 6653 Bach / Tirol  
 Austria

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

**EP 128.2015**  
 X-Dream / X-One 120  
 105 kg  
 2012-0025  
 2015-34-0124

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

Center Line   mm	4550
Main Line 1   mm	4250
Main Line 2   mm	4230 (4x)
Number of cell:	20
Tolerance   mm	25
Weight   grame	1375

TESTS	place:	date:	result:
<b>1. Deployment system strength test</b> A load of 700 N between each components	Villeneuve	16.03.2015	OK
<b>2. Speed of opening test - ref. A (2 times)</b> Time from the instant of free drop until a load of 200 N is sustained Opening time Opening time	Villeneuve	09.03.2015 08.04.2015	3.88 sec 3.2 sec
<b>3. Descent rate and stability test - ref. A and B (2 times)</b> 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	09.03.2015 09.03.2015 08.04.2015 08.04.2015	Stable 5.49 m/sec Stable 5.5 m/sec
<b>4. Strength test 40 m/s opening shock</b> 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	03.02.2012 03.02.2012 02.04.2012	OK OK OK
<b>5. Interaction and stability test (piloted) - ref. C</b> 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
<b>6.Connecting strap</b> Mininum load capacity of 2400 daN	Villeneuve	09.08.2012	2857.3 kg

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## Weather data, ref. 3 and B

Date / place	hPa	wind	tem	humidity
Villeneuve, March 9, 2015	980.7	0 km/h	13°	62.0%
	<b>102.34 kg</b>			
Villeneuve, April 8, 2015	984.4	1 km/h	12°	43.0%
	<b>103.8 kg</b>			

## 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 of 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: (p<sub>0</sub>)

Ground level temperature at the test location: (T)

ICAO standard temperature at MSL: (T<sub>0</sub>)

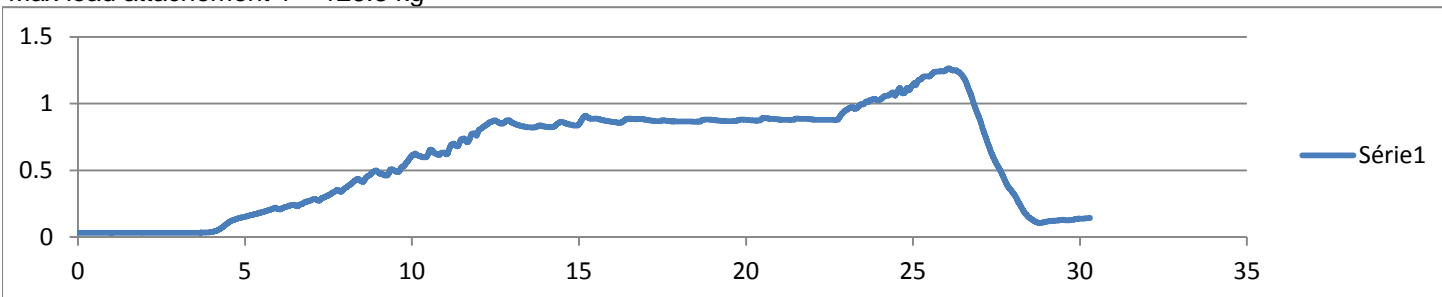
Total weight in flight: (m<sub>dec</sub>)

Corrected mass: (m<sub>corr</sub>)

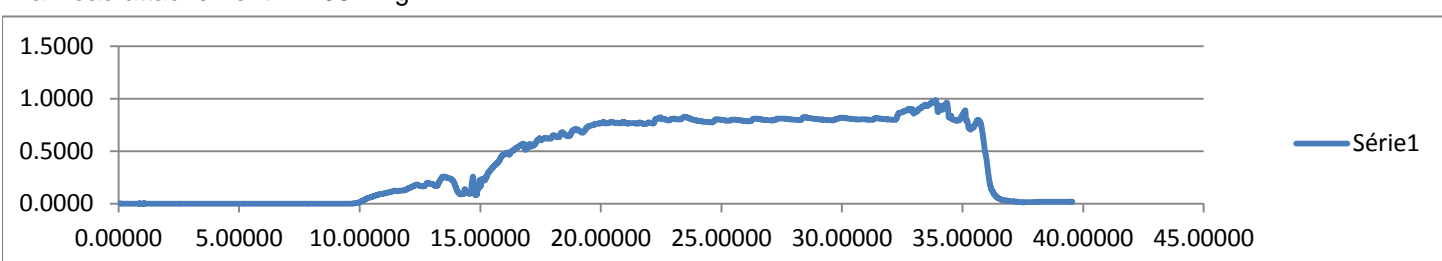
C. Only parachute with controls for steering and landing flare

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

Max load attachment 1 = 126.3 kg



Max load attachment 2 = 98.7 kg





paragliding by air turquoise

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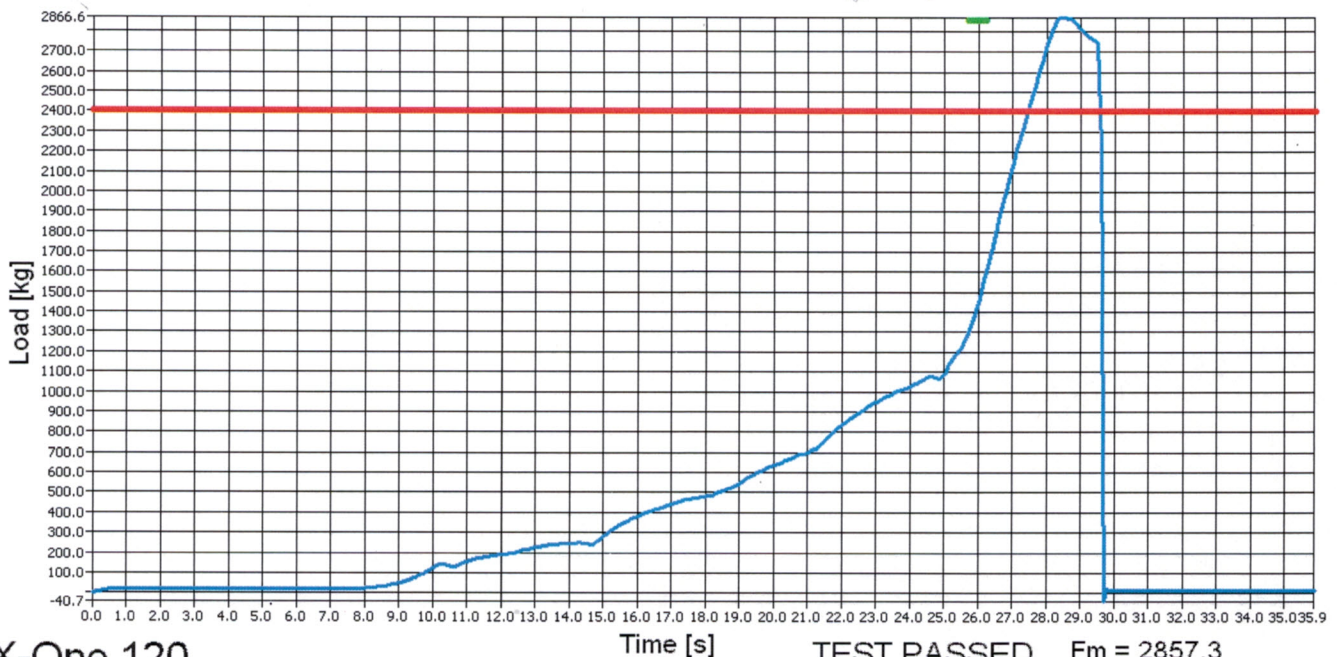
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**EP 128.2015**  
X-Dream / X-One 120

GRAPHIQUE concerning NfL II 91/09 "§ 6.1.4 connecting strap"  
Max load = 2857.3 kg

### Air Turquoise Homologations LOAD DIAGRAM

Alain Zoller  
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CH-1844 Villeneuve  
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**X-One 120**

Test Load [kg] = 2400

**TEST PASSED**

9.8.2012 - 8:33

Fm = 2857.3

measurement with ShockRecord  
(c) 2008 Jonas Buchli <jonas@buchli.org>



**For Air Turquoise SA**

### Air Turquoise SA

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Alain Zoller

Villeneuve, .....

