



paragliding by air turquoise

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:	EP 129.2015
Type/model:	X-Dream / X-One 160
Total weight in flight:	140 kg
Serial number STRENGTH	2012-0035
Serial number FLIGHT	2015-38-0212

Measurement of Flight test rescue (5kg Tension)

Center Line mm	5000
Main Line 1 mm	5140
Main Line 2 mm	5120 (4x)
Number of cell:	24
Tolerance mm	25
Weight grame	1640

TESTS	place:	date:	result:
1. Deployment system strength test A load of 700 N between each components	Villeneuve	16.03.2015	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	09.03.2015 08.04.2015	3.2 sec 3.12 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	09.03.2015 09.03.2015 08.04.2015 08.04.2015	Stable 5.39 m/sec Stable 5.5 m/sec
4. Strength test 40 m/s opening shock 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
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	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	10°	62.0%
	137.9 kg			
Villeneuve, April 8, 2015	984.4	1 km/h	14°	41.0%
	136.96 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 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: (p₀)

Ground level temperature at the test location: (T)

ICAO standard temperature at MSL: (T₀)

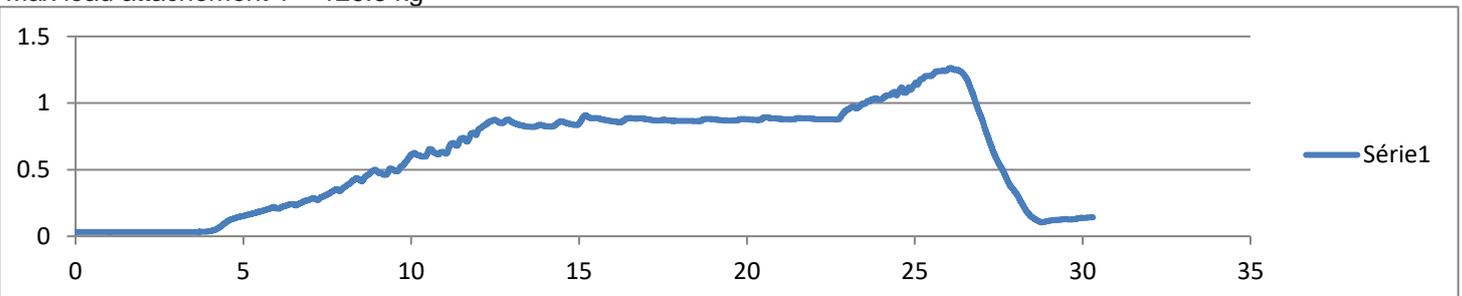
Total weight in flight: (m_{dec})

Corrected mass: (m_{corr})

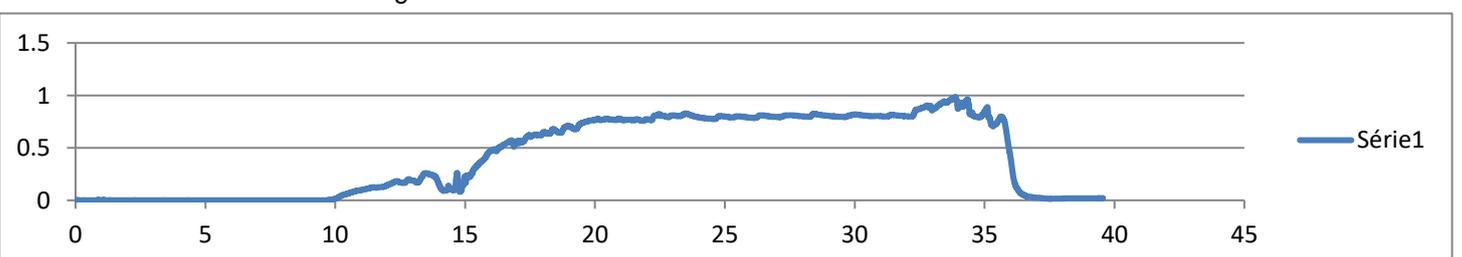
C. Only parachute with controls for steering and landing flare

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

Max load attachement 1 = 126.3 kg



Max load attachement 2 = 98.7 kg





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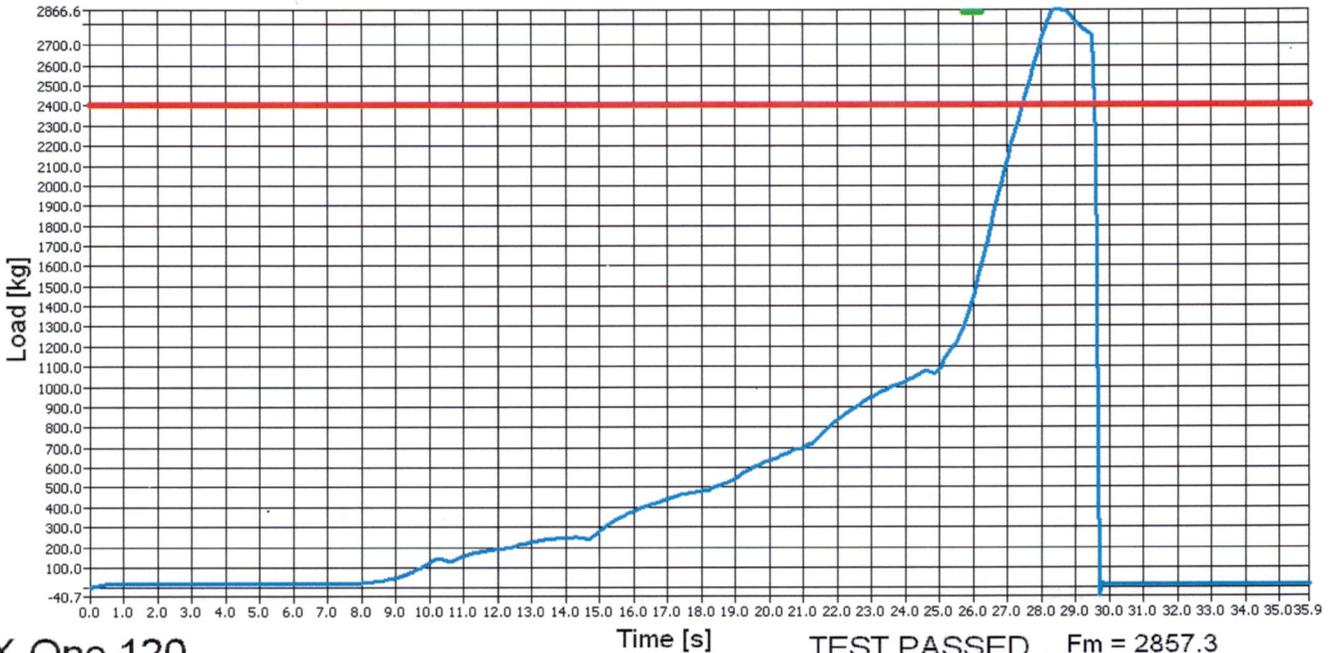
Certification number:
Type/model:

EP 129.2015
X-Dream / X-One 160

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

Air Turquoise Homologations LOAD DIAGRAM

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X-One 120

Test Load [kg] = 2400

Time [s]

TEST PASSED

Fm = 2857.3

9.8.2012 - 8:33

measurement with ShockRecord
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Air Turquoise SA

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For Air Turquoise SA

Alain Zoller

Villeneuve, 9.04.2015

