# AIR TURQUOISE SA | PARA-TEST.COM

Route du Pré-au-Comte 8 🔺 CH-1844 Villeneuve 🔺 +41 (0)21 965 65 65

Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



# Paragliders Shock- and sustained loading test

Inspection certificat number: PG\_1179.2017 Test Report

#### Manufacturer data

Manufacturer name:Ozone GlidersRepresentative:Russell OgdenStreet:2, Queens Drive

Post code / place: LA46LN Country: UK

### Sample data

Name: Delta 3
Size: XL
Maximum weight in flight [kg]: 130

Serial number: PR2-S-02E-015
Date of reception: 28.01.2017

Test data Test Atmosphere AGL

 Place of test:
 Payerne (airport)
 -3.8
 [°C]

 Date of test:
 28.01.2017
 80
 RH [%]

 Inspector:
 Alain Zoller
 961.5
 [hPA]

 0.1
 Wind [m/s]

# Shock loading test result (1)

Weak link used [daN]: 1000

Visual inspection: No visible damage Results: POSITIVE

Uncertainty k=2 [%] (2) **10** 

#### Weak link



| Instruments         | Validity   | Manufacturer | s/n |
|---------------------|------------|--------------|-----|
| Weak link           | 2020       | Tost         | n/a |
| Cable               | 2020       | Rotex        | n/a |
| Geos n° 11 Skywatch | 08.05.2019 | JDC elec.    | 22  |

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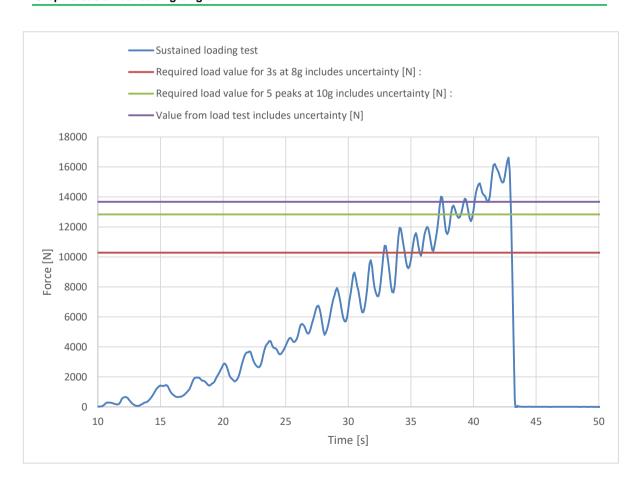
Inspection certificate number: PG\_1179.2017

## Sustained loading test results (3)

Result: POSITIVE
Calculated max load value with 3 sec or five peaks [kg]: 174.25

## Required sustained loading test results<sup>(4)</sup>

#### **Graphic sustained loading diagram**



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#### Detailed sustained loading test results

Calculated cumulative duration at max load [s]: 3.1

1709.37 Calculated max load value duration of 3 sec. [N]: 174.25 Calculated max load value duration of 3 sec. [kg]: Calculated max load value with five peaks [N]: n/a n/a Calculated max load value with five peaks [kg]:

1709.37 Calculated max load value with 3 sec or five peaks [N]: Calculated max load value with 3 sec or five peaks [kg]: 174.25

| Instruments        | Manufacturer | Type nr.     | S/N      |
|--------------------|--------------|--------------|----------|
| Load sensor        | НВМ          | 1-S9M/50KN-1 | 31314652 |
| Geos n°11 Skywatch | JDC          | Geos n° 11   | 0022     |

Air Turquoise SA has thoroughly tested the sample of paraglider mentioned above and certifies its conformity with the standards EN 926-1:2015 chapter 4.4, 4.5 | LTF NFL II-91/09 chapter 3

A controller is positioned on the tow vehicle in order to operate the paraglider control lines to stabilize the wing.

The speed of the vehicle is increased as gradually as possible, enabling the controller to obtain satisfactory stabilisation of the flight path of the paraglider. When the paraglider has stabilized, the speed is increased gradually until either:

<sup>(1)</sup> The paraglider is subjected to a shock load. Shock load is limited using a weak link according to the weight range of glider. The weak link breaks or 5 s has elapsed since the start of the shock load. The wing is then visually inspected for damage.

<sup>(2)</sup> Weak link value include the uncertainty for weight range test values / The uncertainty state is the expanded uncertainty obtained by multiplying the standard uncertainty by the coverage factor k = 2. The value of the measurand lies within the assigned range of values with a probability of 95%.

<sup>(3)</sup> The test specimen (sample) is attached to the electronic sensors on the tow vehicle.

a) the measured load exceeds a load factor of eight times the maximum total weight in flight recommended by the manufacturer, for a minimum cumulative duration of 3 s: or

b) five peaks separated by at least 0,3 s are obtained above ten times the maximum total weight in flight recommended by the manufacturer, in one run.

<sup>(4)</sup> The calculated value include the value minus the uncertainty / The uncertainty stated is the expanded uncertainty obtained by multiplying the standard uncertainty by the coverage factor k = 2. The value of the measurand lies within the assigned range of values with a probability of 95%.