Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Paragliders shock and sustained loading test

Inspection certificate number:	PG_2184.2023		Test Report
Manufacturer data			
Manufacturer name: Representative:	Sol Paragliders - SOL S Ary Carols Pradi		. Ltda
Street:	Rua Walter Marquardt,1180		
Post code / place:	Cep 89259-565 Jaraguá do Sul, SC		
Country:	Brazil		
Sample data			
Name:	Cyclus 2		
Size:	XL		
Maximum weight in flight [kg]:	125		
Serial number:	25216		
Date of reception:	25.01.2023		
Test data	Test Atmosphere AGL		
Place of test:	Yverdon (airport)		-5 [°C]
Date of test:	16.02.2023		74 RH [%]
Inspector:	Nicolas Jacquod		978 [hPA]
·			0.1 Wind [m/s]
Shock loading test result ⁽¹⁾			
Weak link used [daN]:	1000		
Visual inspection:	No visible damage	Results:	POSITIVE

Weak link



Instruments	Validity	Manufacturer	s/n
Weak link	continously	Tost	n/a
Ultrawire DSK99	29.10.2023	Gottifredi	n/a
Geos nº 11 Skywatch	18.06.2025	JDC elec.	Unit11

AIR TURQUOISE SA | PARA-TEST.COM

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

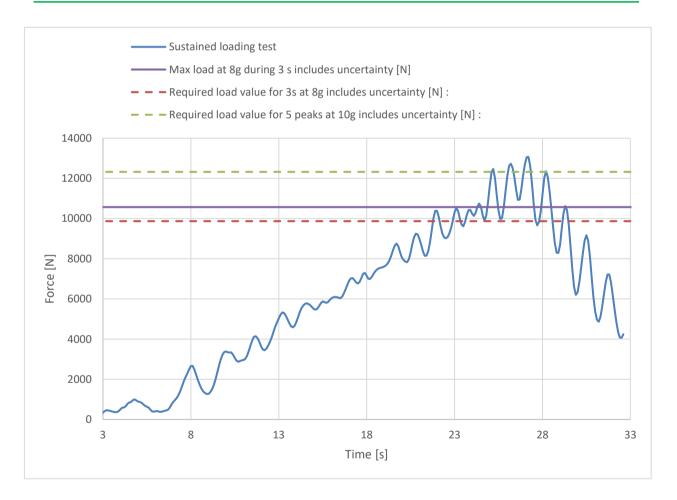
Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Inspection certificate number: PG_2184.2023

Detailed sustained loading test results				
Cumulative duration at max load [s]:	3.2			
Max calculated load value for a duration of 3 sec. [N]:	1321.23			
Max calculated load value for a duration of 3 sec. [kg]:	134.68			
Max calculated load value with five peaks [N]:	n/a			
Max calculated load value with five peaks [kg]:	n/a			
Max calculated load value with 3 sec or five peaks [N]:	1321.23			
Max calcultaed load value with 3 sec or five peaks [kg]:	134.68			

Sustained loading test diagram



Sustained loading test results (3)

Result:

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

POSITIVE 134.68 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



Inspection certificate number: PG_2184.2023

 Instruments
 Manufacturer
 Validity
 S/N

 Load sensor
 HBM
 04.09.2023
 31314652

 Geos n°11 Skywatch
 JDC
 18.06.2025
 Unit11

The validation of this test report is given by the signature of the test manager on inspection certificate 91.20

Air Turquoise SA has thoroughly tested the sample of paraglider mentioned above and certifies its conformity with the standards EN 926-1:2015 | NfL 2-565-20

(1) The paraglider is subjected to a shock load. Shock load is limited using a weak link according to the weight range of the 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.

(2) The weak link value includes the uncertainty for the 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%.

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

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:

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.

(4) 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%.