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



Speed of opening, stability, descent rate

Inspection certificate number: EP_253.2019 Test Report

Manufacturer data

Manufacturer name: Woody Valley srl
Representative: Simone Caldana
Street: Via Vienna 92
Post code / Place: 30121 Trento

Country: **Italy**

Sample data

Name:QuadroSize:140Steerable (1)NoMaximum weight in flight (2) [kg]:140Weight (3) [kg]1.506volume packed [cm3]:6200

Serial number: 1001/2018 / 1002/2018

Test data ⁽⁴⁾ Test no. 1 Test no. 2

Place of testVilleneuveVilleneuveDate of test20.11.201828.11.2018Inspector:Alain ZollerAlain Zoller

Atmosphere AGL

 [°C]
 2.8
 2

 RH [%]
 77
 80

 [hPa]
 959.1
 979.1

 Wind [m/s]
 0.1
 0.1

Summary of both results (5) **EN LTF** Time of opening test [s]: 3.12 3.12 Calculated descent rate test [m/s]: 5.47 5.47 Stability test: **POSITIVE POSITIVE** Behaviour during descent test: **Stable** Stable Glider ratio: **POSITIVE**

If steerable:

Any flight procedure and/or configuration described in the

user's manual

N/A

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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Strength test - 40 m/s opening shock

Inspection certificate number: EP_253.2019 Test Report

Manufacturer data

Manufacturer name: Woody Valley srl
Representative: Simone Caldana
Street: Via Vienna 92
Post code / Place: 30121 Trento

Country: Italy

Sample data

 Name:
 Quadro

 Steerable
 No

 Weight [kg]
 1.506

 Serial number:
 1003/2018

Size: 140

Maximum weight [kg]: 140

volume packed [cm³]: 6200

Test data (1)

Place of test Muraz
Date of test 14.12.2018
Corrected mass [kg] 141.18

Muraz 14.12.2018 141.18

Test no. 2

Inspector:

Alain Zoller

Test no. 1

Alain Zoller

Atmosphere AGL

 [°C]
 2

 RH [%]
 55

 [hPa]
 969.5

 Wind [m/s]
 0.1

2 55 969.5 0.1

Test results

Test no. 1

Test no. 2

Strength test (40m/s shock)
Aircraft speed uncertainty K=2
[m/s] (2)

POSITIVE

POSITIVE

1.7

Item / type no.	Validity	Manufacturer	S/N	
Weight	2020	Air Turquoise SA	N/A	
Geos n° 11	08.05.2017	JDC elec.	22	
Weak link	2020	Tost	N/A	

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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Identification number:

MISC 077.2018

Fluggeräte GmbH ALFA Cross

Result summary

Maximum strength for riser, bridle

29193.8 [N]

Place of declaration Date of issue:

Managing director

Signature:

Villeneuve 24.05.2018 Alain Zoller

This signature approve the validity of the test report, and can be included in the inspection certificate 71.5.1

Air Turquoise SA has thoroughly tested the sample of emergency parachute mentioned above and certifies its conformity with the standards: LTF NfL II 91/09 chapter 6.1.4

Instrument	Validity	Manufacturer	Type no.	S/N
Load sensor	14.10.2019	НВМ	1-S9M/50KN-1	31314652
Geos n° 11 Skywatch	08.05.2017	JDC elec.	Geos n° 11	22

⁽f) Riser: lowest part of the parachute system, which is connected to harness. Bridle: connection between riser and harness, can also be a strap.

⁽²⁾ The connecting strap has to have a minimum load capacity of 24000 [N]. The exposed part of the connecting belt has to be protected against environmental factors.

⁽⁹⁾ Calculated value include the value minus the uncertainty (on safe side) / The uncertainty stated is the expanded uncertainty obtained by multiplying the standard uncertainty by the coverage factor k = 2. The value of the measured lies within the assigned range of values with a probability of 95%.

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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Identification number:

MISC_078.2018

Fluggeräte GmbH ALFAcross one size

Result summary

Inner container strength test. Applied minimum 700 N for at least 10 seconds and at maximum strength.

Duration at the required strength:

5.9 [s]

The maximum strength before broken:

851.0 [N]

Place of declaration Date of issue:

Managing director

Signature:

Villeneuve 24.05.2018 Alain Zoller

This signature approve the validity of the test report, and can be included in the inspection certificate 71.5.1

Air Turquoise SA has thoroughly tested the sample of riser/bridle mentioned above and certifies its conformity with the standards: EN 12491: 2015 chapter 5.3.2 and LTF

NfL 91/09 chapter 6.1.8

Instrument	Validity	Manufacturer	Type no.	S/N
Load Cell (axial)	01.06.2021	Burster GmbH (DE)	8431-10000	1185483
Winch	check every 12 month	Arwin	300/600	N/A
Geos n° 11 Skywatch	08.05.2017	JDC elec.	Geos nº 11	22

⁽¹⁾ Inner container: container of the folded emergency parachute.

⁽²⁾ Inner container (the connection between handgrip and inner container) is loaded at min 700 [N] over 10 seconds. The deployment system is loaded until breaking. Each component is tested.

⁽³⁾ Calculated value include the value minus the uncertainty (on safe side) / The uncertainty stated is the expanded uncertainty obtained by multiplying the standard uncertainty by the coverage factor k = 2. The value of the measured lies within the assigned range of values with a probability of 95%.