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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Speed of opening, stability, descent rate

Inspection certificate number: EP_187.2017 Test Report

Manufacturer data

Manufacturer name:

Representative:

Street:

Post code / Place:

Country:

U-Turn GmbH

Ernst Strobl

Im Neuneck 1

78609 Tuningen

Germany

Sample data

Name:Backup XSize:100SteerableNoMaximum weight in flight (1) [kg]:100Weight (2) [kg]1.06volume packed [cm³]:3850

Serial number: SK-Backup X-100-11C-1001

Test data ⁽³⁾ Test no. 1 Test no. 2

Place of test Villeneuve n/a

Date of test 13.03.2017

Inspector: Claude Thurnheer

Atmosphere AGL

 [°C]
 7.1

 RH [%]
 80

 [hPa]
 977

 Wind [m/s]
 0.1

Summary of both results (4) LTF

Time of opening test [s]:

Calculated descent rate test [m/s]:

Stability test:

Behaviour during descent test:

2.71

6.09

POSITIVE

Stable

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Strength test - 40 m/s opening shock

Inspection certificate number: EP_187.2017 Test Report

Manufacturer data

Manufacturer name:

Representative:

Street:

Post code / Place:

Country:

U-Turn GmbH

Ernst Strobl

Im Neuneck 1

78609 Tuningen

Germany

Sample data

 Name:
 Backup X
 Size:
 100

 Steerable
 No
 Maximum weight [kg]:
 100

 Weight [kg]
 1.06
 volume packed [cm³]:
 3850

Serial number: AK-Backup X-100-11C-1004

Test data ⁽¹⁾ Test no. 1 Test no. 2

 Place of test
 Illarsaz
 Illarsaz

 Date of test
 08.03.2017
 29.03.2017

 Corrected mass [kg]
 99.53
 96.36

Inspector: Alain Zoller Alain Zoller

Atmosphere AGL

 [°C]
 9.6
 18.5

 RH [%]
 75
 59

 [hPa]
 980.6
 979

 Wind [m/s]
 0.1
 0.2

Test results Test no. 1 Test no. 2

Speed of opening (maximum 5 s) Strength test (40m/s shock) Aircraft speed uncertainty K=2 [m/s] (2)

POSITIVE POSITIVE

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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Result summary

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

Duration at the required strength:

14.2 [s]

The maximum strength before broken:

858.0 [N]

Place of declaration

Date of issue: Managing director Villeneuve 28.07.2017 Alain Zoller

Signature:

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 | 2001 chapter 5.3.2 and LTF 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	11.01.2018	Arwin	300/600	N/A
Geos n° 11 Skywatch	08.05.2017	JDC elec.	Geos n° 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 secondes. 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 measurand 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_046.2017

U-Turn GmbH Backup X

Result summary

Maximum strength for riser, bridle

28564.0 [N]

Place of declaration

Date of issue:

Managing director

Signature:

Villeneuve 28.07.2017 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 9/09 chapter 6.1.4

Instrument	Validity	Manufacturer	Type no.	S/N
Load sensor	14.10.2017	HBM	1-S9M/50KN-1	31314652
Geos n° 11 Skywatch	08.05.2017	JDC elec.	Geos n° 11	22

⁽¹⁾ 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.

⁽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 measurand lies within the assigned range of values with a probability of 95%.