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



90

90

2600

Speed of opening, stability, descent rate

Inspection certificate number: EP_257.2019 Test Report

Manufacturer data

Manufacturer name: AirDesign GmbH
Representative: Stephan Stiegler

Street: Rhomberstrasse 9, 3. Stock

Post code / Place: 6067 Absam
Country: Austria

Sample data

Name: Donut SL Size:
Steerable ⁽¹⁾ No Maximum weight in flight ⁽²⁾ [kg]:
Weight ⁽³⁾ [kg] 0.88 volume packed [cm³]:

Serial number: XR01853PP183008

Test data ⁽⁴⁾ Test no. 1 Test no. 2

Place of test Villeneuve

Date of test 04.09.2018 12.09.2018

Inspector: Claude Thurnheer Claude Thurnheer

Atmosphere AGL

 [°C]
 21
 25

 RH [%]
 68
 60

 [hPa]
 972.2
 977.2

 Wind [m/s]
 0.1
 0.1

Summary of both results (5) **EN LTF** Time of opening test [s]: 3.11 3.11 Calculated descent rate test [m/s]: 5.49 5.49 Stability test: **POSITIVE POSITIVE** Behaviour during descent test: **Stable Stable** Glider ratio: **POSITIVE** If steerable: N/A Any flight procedure and/or N/A configuration described in the user's manual

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



Strength test - 40 m/s opening shock

Inspection certificate number: EP_257.2019 Test Report

Manufacturer data

Manufacturer name: AirDesign GmbH Representative: Stephan Stiegler

Street: Rhomberstrasse 9, 3. Stock

Post code / Place: **6067 Absam**Country: **Austria**

Sample data

 Name:
 Donut SL
 Size:
 90

 Steerable
 No
 Maximum weight [kg]:
 90

 Weight [kg]
 0.88
 volume packed [cm³]:
 2600

Serial number: XR01903CPP191001A

Test data ⁽¹⁾ Test no. 1 Test no. 2

 Place of test
 Muraz
 Muraz

 Date of test
 05.04.2019
 05.04.2019

 Corrected mass [kg]
 87.62
 87.62

Inspector: Alain Zoller Alain Zoller

Atmosphere AGL

 [°C]
 10
 10

 RH [%]
 72
 72

 [hPa]
 959.4
 959.4

 Wind [m/s]
 0.1
 0.1

Test results Test no. 1 Test no. 2

Strength test (40m/s shock) **POSITIVE POSITIVE** Aircraft speed uncertainty K=2

[m/s] ⁽²⁾ 1.7 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

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



Identification number:

MISC 095.2018

AirDesign GmbH Donut 90 SL 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:

18.1 [s]

The maximum strength before broken:

1512.0 [N]

Place of declaration

Villeneuve

Date of issue:

30.08.2018

Managing director

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: 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 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 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%.

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



Identification number:

MISC_097.2018

AirDesign GmbH Donut

Result summary

Maximum strength for riser, bridle

25807.9 [N]

Place of declaration Date of issue: Managing director Villeneuve 15.10.2018 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 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

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