

Speed of opening, stability, descent rate

Inspection certificate number:

EP_378.2026

Test Report

Manufacturer data

Manufacturer name: **AirDesign Gliders AG**
 Representative: **Michael Witschi**
 Street: **Eintracht 8**
 Post code / Place: **6386 Wolfenschiessen**
 Country: **Switzerland**

Sample data

Name:	Donut SL	Size:	110
Steerable ⁽¹⁾ :	No	Maximum weight in flight ⁽²⁾ [kg]:	110
Weight ⁽³⁾ [kg]:	1.06	Volume packed [cm ³]:	3000
Serial number:	XR0331101R254508		

Test results ⁽⁴⁾

	Test no. 1	Test no. 2
Measured opening time [s]:	3.61	3.45
Unsteerable parachute and steerable parachute with locked controls (if applicable)		
Measured sink rate [m/s] (≤ 5.5):	5.02	5.38
Stability test:	Stable	Stable

Steerable parachute and steerable parachute with unlocked controls (if applicable)

Measured sink rate [m/s] (≤ 4.0):	n/a	n/a
Stability test:	n/a	n/a
Test of steerability:	n/a	n/a

Test data

	Test no. 1	Test no. 2
Place of test	Villeneuve	Villeneuve
Date of test	01.12.2025	13.01.2026
Atmosphere AGL		
[°C]	4	6
RH [%]	78	70
[hPa]	975	968
Wind [m/s]	0.2	0.1
Corrected mass with uncertainty (m_{corr}) [kg]:	110.9	108.4

If steerable with brake lock system

Place of test	n/a	n/a
Date of test	n/a	n/a
Atmosphere AGL		
[°C]	n/a	n/a
RH [%]	n/a	n/a
[hPa]	n/a	n/a
Wind [m/s]	n/a	n/a
Corrected mass with uncertainty (m_{corr}) [kg]:	n/a	n/a

Strength test - 40 m/s opening shock

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 Country: **Switzerland**

Sample data

Name: **Donut SL** Size: **110**
 Steerable **No** Maximum weight [kg]: **110**
 Weight [kg] **1.06** Volume packed [cm³]: **3000**
 Serial number: **XR03.21101R2541133**

Test data ⁽¹⁾

	Test no. 1	Test no. 2
Place of test	St-Cierges	St-Cierges
Date of test	04.11.2025	04.11.2025
Maximum weight [kg]	110	110
Inspector:	Olivier Zoller	Olivier Zoller

Atmosphere AGL

	Test no. 1	Test no. 2
[°C]	7	11
RH [%]	82	72
[hPa]	928	927
Wind [m/s]	0.3	0.9

Test results

	Test no. 1	Test no. 2
Strength test (40m/s shock)	POSITIVE	POSITIVE
Aircraft speed uncertainty K=2 [m/s] ⁽²⁾	2.9	2.9

Identification number: **MISC_340.2026****AirDesign Gliders AG DONUT SL110 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: **27.4 [s]**Maximum strength before broken: **1183.9 [N]**

Place of declaration:

Villeneuve

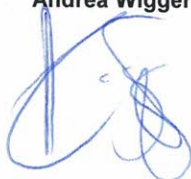
Date of issue:

16.02.2026

Managing director:

Andrea Wigger

Signature:



Instrument	Validity	Manufacturer	Type no.	S/N
Load sensor 10kN SL2	26.06.2030	Burster / MTS	8431-6010-N000S000	593507
Winch	check every 12 month	Arwin	300/600	N/A
Geos n° 11 Skywatch	24.07.2030	JDC elec.	Geos n° 11	22


This signature approves the validity of the test report

Air Turquoise SA has thoroughly tested the sample of riser/bridle mentioned above and certifies its conformity with the following standards:**EN 12491:2015+A1:2021 chapter 5.3.2 and NF EN 12491-2:2015 chapter 6.1.8**⁽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 includes 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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Identification number: **MISC_329.2026****AirDesign Gliders AG Donut SL 110 Riser****Result summary**

Maximum strength for riser, bridle: **24291.3 [N]**
Duration at the requested load: **0.8 [s]**

Place of declaration: **Villeneuve**
Date of issue: **14.01.2026**
Managing director: **Andrea Wigger**
Signature: 

This signature approves the validity of the test report

Air Turquoise SA has thoroughly tested the sample of emergency parachute mentioned above and certifies its conformity with the standards: **EN 1651:2018+A1:2020 and NF L 2024-2-785 chapter 6.1.4**

Instrument	Validity	Manufacturer	Type no.	S/N
Load sensor	24.03.2030	HBM	1-S9M/50KN-1	31314643
Geos n° 11 Skywatch	24.07.2030	JDC elec.	Geos n° 11	22

⁽¹⁾ Riser: lowest part of the the parachute system, which is connected to the harness. Bridle: connection between risers 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 includes 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%.