AIR TURQUOISE SA | PARA-TEST.COM
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Test laboratory for paragliders, paraglider harnesses
and paraglider reserve parachutes

paragliding by air turquoise

Speed of opening, stability, descent rate

Inspection certificate number: **EP_351.2023** **Test Report**

Manufacturer data

Manufacturer name:	**BogdanFly**
Representative:	**Voinov Bogdan Romanovich**
Street:	**Rua da Pedreira, 34.**
Post code / Place:	**Salir 8100-202 Faro region**
Country:	**Portugal**

Sample data

Name:	**BFreserve**	Size:	**23**
Steerable [(1)]:	**No**	Maximum weight in flight [(2)] [kg]:	**90**
Weight [(3)] [kg]:	**0.94**	Volume packed [cm^3]:	**3000**
Serial number:	**003M3122**		

Test results [(4)]	**Test no. 1**	**Test no. 2**
Measured opening time [s]:	**3.01**	**2.98**
Unsteerable parachute and steerable parachute with locked controls (if applicable)		
Measured sink rate [m/s] (≤ 5.5):	**5.22**	**4.96**
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		**30.09.2022**	**13.10.2022**
Atmosphere AGL	[°C]	**14**	**15**
	RH [%]	**76**	**76**
	[hPa]	**975**	**978**
	Wind [m/s]	**0.1**	**0.1**
Corrected mass with uncertainty (m_{corr}) [kg]:		**87.7**	**86.8**
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**

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Strength test - 40 m/s opening shock

Inspection certificate number: **EP_351.2023**

Test Report

Manufacturer data

Manufacturer name:	**BogdanFly**
Representative:	**Voinov Bogdan Romanovich**
Street:	**Rua da Pedreira, 34.**
Post code / Place:	**Salir 8100-202 Faro region**
Country:	**Portugal**

Sample data

Name:	**BFreserve**	Size:	**23**
Steerable	**No**	Maximum weight [kg]:	**90**
Weight [kg]	**0.94**	Volume packed [cm^3]:	**3000**
Serial number:	**012M0423**		

Test data (1)	**Test no. 1**	**Test no. 2**
Place of test	**St-Cierges**	**St-Cierges**
Date of test	**11.04.2023**	**11.04.2023**
Maximum weight [kg]	**90**	**90**
Inspector:	**Nicolas Jacquod**	**Nicolas Jacquod**
Atmosphere AGL		
[°C]	**8**	**7**
RH [%]	**78**	**74**
[hPa]	**968**	**967**
Wind [m/s]	**1**	**0.5**

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

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paragliding by air turquoise

Identification number: **MISC_233.2022**

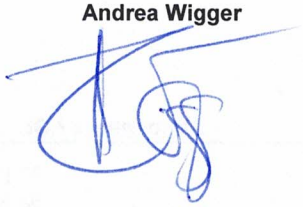
BogdanFly BFreserve

Result summary

Maximum strength for riser, bridle:	**26783.1** [N]
Duration at the requested load:	**2.2** [s]

Place of declaration: **Villeneuve**
Date of issue: **03.11.2022**
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**[4] **and NfL 2-565-20 chapter 6.1.4**

Instrument	Validity	Manufacturer	Type no.	S/N
Load sensor	04.09.2023	HBM	1-S9M/50KN-1	31314652
Geos n° 11 Skywatch	18.06.2025	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%.

[4] This standards is NOT covered by accreditation D-IS-19457-01

Identification number: **MISC_232.2022**

BogdanFly BFreserve M

Result summary

Inner container strength test. Applied minimum 700 N for at least 10 seconds and at maximum strength.
Duration at the required strength: **12.8** [s]
Maximum strength before broken: **1268.5** [N]

Place of declaration: **Villeneuve**
Date of issue: **03.11.2022**
Managing director: **Andrea Wigger**

Signature:

Instrument	Validity	Manufacturer	Type no.	S/N
Load sensor 10kN SL2	21.04.2026	Burster / MTS	8431-6010-N000S000	593507
Winch	check every 12 month	Arwin	300/600	N/A
Geos n° 11 Skywatch	18.06.2025	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[4] chapter 5.3.2 and NfL 2-565-20 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%.

[4] This standard is NOT covered by accreditation D-IS-19457-01