



## Speed of opening, stability, descent rate

Inspection certificate number: **EP\_199.2017**

**Test Report**

### Manufacturer data

Manufacturer name: **Air Vuisa**  
 Representative: **Sasa Vulic**  
 Street: **Radeta Drainca 27**  
 Post code / Place: **37201 Parunovac, Krusevac**  
 Country: **Serbia**

### Sample data

Name:	<b>SnowFlake</b>	Size:	<b>125</b>
Steerable	<b>No</b>	Maximum weight in flight <sup>(1)</sup> [kg]:	<b>125</b>
Weight <sup>(2)</sup> [kg]	<b>1.742</b>	volume packed [cm <sup>3</sup> ]:	<b>5600</b>
Serial number:	<b>0010417</b>		

### Test data <sup>(3)</sup>

	<b>Test no. 1</b>	<b>Test no. 2</b>
Place of test	<b>Villeneuve</b>	<b>Villeneuve</b>
Date of test	<b>15.09.2017</b>	<b>24.01.2018</b>
Inspector:	<b>Alain Zoller</b>	<b>Alain Zoller</b>

### Atmosphere AGL

	<b>Test no. 1</b>	<b>Test no. 2</b>
[°C]	<b>11.6</b>	<b>6.5</b>
RH [%]	<b>72</b>	<b>78</b>
[hPa]	<b>972.9</b>	<b>982.7</b>
Wind [m/s]	<b>0.2</b>	<b>0.2</b>

### Summary of both results <sup>(4)</sup>

	<b>EN</b>
Time of opening test [s]:	<b>3.15</b>
Calculated descent rate test [m/s]:	<b>5.47</b>
Stability test:	<b>POSITIVE</b>
Behaviour during descent test:	<b>Stable</b>
Glide ratio	<b>POSITIVE</b>

## Strength test - 40 m/s opening shock

Inspection certificate number: **EP\_199.2017****Test Report**

### Manufacturer data

Manufacturer name: **Air Vuisa**  
 Representative: **Sasa Vulic**  
 Street: **Radeta Drainca 27**  
 Post code / Place: **37201 Parunovac, Krusevac**  
 Country: **Serbia**

### Sample data

Name: **SnowFlake** Size: **125**  
 Steerable: **No** Maximum weight [kg]: **125**  
 Weight [kg]: **1.742** volume packed [cm<sup>3</sup>]: **5600**  
 Serial number: **0020417**

### Test data <sup>(1)</sup>

	Test no. 1	Test no. 2
Place of test	<b>Illarsaz</b>	<b>Illarsaz</b>
Date of test	<b>27.09.2017</b>	<b>27.09.2017</b>
Corrected mass [kg]	122.39	122.39
Inspector:	<b>Alain Zoller</b>	<b>Alain Zoller</b>

### Atmosphere AGL

	Test no. 1	Test no. 2
[°C]	<b>12.8</b>	<b>12.8</b>
RH [%]	<b>62.8</b>	<b>62.8</b>
[hPa]	<b>977.3</b>	<b>977.3</b>
Wind [m/s]	<b>0.1</b>	<b>0.1</b>

### Test results

	Test no. 1	Test no. 2
Speed of opening (maximum 5 s)	<b>POSITIVE</b>	<b>POSITIVE</b>
Strength test (40m/s shock)	<b>POSITIVE</b>	<b>POSITIVE</b>
Aircraft speed uncertainty K=2 [m/s] <sup>(2)</sup>	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



Identification number: **MISC\_057.2017**

**Air Vuisa SnowFlake**

**Result summary**

Maximum strength for riser, bridle

**28799.0 [N]**

Place of declaration **Villeneuve**  
Date of issue: **23.11.2017**  
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 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

<sup>(1)</sup> Riser: lowest part of the parachute system, which is connected to harness. Bridle: connection between riser and harness, can also be a strap.

<sup>(2)</sup> 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.

<sup>(3)</sup> 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%.



time [s]

Identification number: **MISC\_052.2017**

**Air Vuisa SnowFlake 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: **14.7 [s]**  
 The maximum strength before broken: **806.0 [N]**

Place of declaration **Villeneuve**  
 Date of issue: **03.10.2017**  
 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 | 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

<sup>(17)</sup> Inner container: container of the folded emergency parachute.  
<sup>(18)</sup> 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%.