

## Speed of opening, stability, descent rate

Inspection certificate number: **EP\_264.2019****Test Report**

### Manufacturer data

Manufacturer name: **FG-Plus d.o.o.**  
 Representative: **Sandi Marincic**  
 Street: **Pot na Crno 30**  
 Post code / Place: **1217 Vodice**  
 Country: **Slovenia**

### Sample data

Name: **FGQ** Size: **25**  
 Steerable <sup>(1)</sup>: **n/a** Maximum weight in flight <sup>(2)</sup> [kg]: **90**  
 Weight <sup>(3)</sup> [kg]: **0.99** volume packed [cm<sup>3</sup>]: **2900**  
 Serial number: **728**

### Test data <sup>(4)</sup>

|               | Test no. 1              | Test no. 2              |
|---------------|-------------------------|-------------------------|
| Place of test | <b>Villeneuve</b>       | <b>Villeneuve</b>       |
| Date of test  | <b>23.05.2019</b>       | <b>23.05.2019</b>       |
| Inspector:    | <b>Claude Thurnheer</b> | <b>Claude Thurnheer</b> |

### Atmosphere AGL

|            |             |              |
|------------|-------------|--------------|
| [°C]       | <b>14.8</b> | <b>16.3</b>  |
| RH [%]     | <b>68</b>   | <b>64</b>    |
| [hPa]      | <b>974</b>  | <b>972.8</b> |
| Wind [m/s] | <b>0.1</b>  | <b>0.1</b>   |

### Summary of both results <sup>(5)</sup>

|                                     | EN              | LTF             |
|-------------------------------------|-----------------|-----------------|
| Time of opening test [s]:           | <b>3.12</b>     | <b>3.12</b>     |
| Calculated descent rate test [m/s]: | <b>5.01</b>     | <b>5.01</b>     |
| Stability test:                     | <b>POSITIVE</b> | <b>POSITIVE</b> |
| Behaviour during descent test:      | <b>Stable</b>   | <b>Stable</b>   |
| Glider ratio:                       | <b>POSITIVE</b> |                 |

If steerable:

|  |            |            |
|--|------------|------------|
| Any flight procedure and/or configuration described in the user's manual | <b>N/A</b> | <b>N/A</b> |
|--|------------|------------|



## Strength test - 40 m/s opening shock

Inspection certificate number: **EP\_264.2019**

**Test Report**

### Manufacturer data

Manufacturer name: **FG-Plus d.o.o.**  
 Representative: **Sandi Marincic**  
 Street: **Pot na Crno 30**  
 Post code / Place: **1217 Vodice**  
 Country: **Slovenia**

### Sample data

|                |             |                                   |             |
|----------------|-------------|-----------------------------------|-------------|
| Name:          | <b>FGQ</b>  | Size:                             | <b>25</b>   |
| Steerable      | <b>n/a</b>  | Maximum weight [kg]:              | <b>90</b>   |
| Weight [kg]    | <b>0.99</b> | volume packed [cm <sup>3</sup> ]: | <b>2900</b> |
| Serial number: | <b>728</b>  |                                   |             |

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

|                     | Test no. 1          | Test no. 2          |
|---------------------|---------------------|---------------------|
| Place of test       | <b>Muraz</b>        | <b>Muraz</b>        |
| Date of test        | <b>24.05.2019</b>   | <b>24.05.2019</b>   |
| Corrected mass [kg] | 87.09               | 87.09               |
| Inspector:          | <b>Alain Zoller</b> | <b>Alain Zoller</b> |

### Atmosphere AGL

|            |              |              |
|------------|--------------|--------------|
| [°C]       | <b>15</b>    | <b>15</b>    |
| RH [%]     | <b>69</b>    | <b>69</b>    |
| [hPa]      | <b>970.4</b> | <b>970.4</b> |
| Wind [m/s] | <b>0.1</b>   | <b>0.1</b>   |

### Test results

|  | Test no. 1      | Test no. 2      |
|--|-----------------|-----------------|
| Strength test (40m/s shock)                            | <b>POSITIVE</b> | <b>POSITIVE</b> |
| Aircraft speed uncertainty K=2<br>[m/s] <sup>(2)</sup> | 2.9             | 2.9             |

| Item / type no. | Validity   | Manufacturer     | S/N |
|-----------------|------------|------------------|-----|
| Weight          | 2020       | Air Turquoise SA | N/A |
| Geos n° 11      | 08.05.2020 | JDC elec.        | 22  |
| Weak link       | 2020       | Tost             | N/A |



Identification number: **MISC\_056.2017**

**FG-Plus d.o.o. FG rescue riser**

**Result summary**

Maximum strength for riser, bridle **27860.5 [N]**

Place of declaration **Villeneuve**  
 Date of issue: **12.02.2018**  
 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 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%.



Identification number: **MISC\_063.2107**

**FG-Plus d.o.o. FG serie one size**

**Result summary**

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

Duration at the required strength: **10.4 [s]**

The maximum strength before broken: **803.0 [N]**

Place of declaration **Villeneuve**  
 Date of issue: **18.12.2017**  
 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>(1)</sup> Inner container: container of the folded emergency parachute.

<sup>(2)</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.

<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%.