



## Speed of opening, stability, descent rate

Inspection certificate number: **EP\_229.2018**

**Test Report**

### Manufacturer data

Manufacturer name: **Fly-market Flugsport-Zubehör GmbH & Co. KG**  
 Representative: **Stefan Kurrle**  
 Street: **Am Schönebach 3**  
 Post code / Place: **87637 Eisenberg**  
 Country: **Germany**

### Sample data

Name: **Trigon** Size: **125**  
 Steerable <sup>(1)</sup>: **Yes** Maximum weight in flight <sup>(2)</sup> [kg]: **100**  
 Weight <sup>(3)</sup> [kg]: **1.542** volume packed [cm<sup>3</sup>]: **4400**  
 Serial number: **2k18-Sample-056**

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

	Test no. 1	Test no. 2
Place of test	<b>Villeneuve</b>	<b>Villeneuve</b>
Date of test	<b>30.07.2019</b>	<b>21.08.2019</b>
Inspector:	<b>Alain Zoller</b>	<b>Claude Thurnheer</b>

### Atmosphere AGL

[°C]	<b>23</b>	<b>16.4</b>
RH [%]	<b>71</b>	<b>78</b>
[hPa]	<b>972.1</b>	<b>980.9</b>
Wind [m/s]	<b>0.1</b>	<b>0.3</b>

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

	EN	LTF
Time of opening test [s]:	<b>3.79</b>	<b>3.79</b>
Calculated descent rate test [m/s]:	<b>4.81</b>	<b>4.81</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>POSITIVE</b>	<b>POSITIVE</b>
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## Strength test - 40 m/s opening shock

Inspection certificate number: **EP\_229.2018**

**Test Report**

### Manufacturer data

Manufacturer name: **Fly-market Flugsport-Zubehör GmbH & Co. KG**  
 Representative: **Stefan Kurrle**  
 Street: **Am Schönebach 3**  
 Post code / Place: **87637 Eisenberg**  
 Country: **Germany**

### Sample data

Name: **Trigon** Size: **125**  
 Steerable **Yes** Maximum weight [kg]: **100**  
 Weight [kg] **1.542** volume packed [cm<sup>3</sup>]: **4400**  
 Serial number: **2k18-Sample-029**

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

	Test no. 1	Test no. 2
Place of test	<b>Muraz</b>	<b>Muraz</b>
Date of test	<b>21.02.2018</b>	<b>21.02.2018</b>
Corrected mass [kg]	100.90	100.90
Inspector:	<b>Alain Zoller</b>	<b>Alain Zoller</b>

### Atmosphere AGL

	Test no. 1	Test no. 2
[°C]	<b>0.7</b>	<b>0.7</b>
RH [%]	<b>74</b>	<b>74</b>
[hPa]	<b>963</b>	<b>963</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 [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\_060.2017**

**Fly-market Flugsport-Zubehör GmbH & Co. KG Trigon**

**Result summary**

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Maximum strength for riser, bridle **26973.7 [N]**

Place of declaration **Villeneuve**  
Date of issue: **15.12.2017**  
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 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\_088.2018**

**Fly-market Flugsport-Zubehör GmbH & Co. KG Trigon 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: **14.1 [s]**

The maximum strength before broken: **807.0 [N]**

Place of declaration **Villeneuve**  
Date of issue: **14.08.2018**  
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

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