



## Speed of opening, stability, descent rate

Inspection certificate number: **EP\_185.2017**

**Test Report**

### Manufacturer data

Manufacturer name: **Findsterwalder GmbH**  
 Representative: **Thomas Finsterwalder**  
 Street: **Pagodenburgstrasse 8**  
 Post code / Place: **81247 München**  
 Country: **B.R. Deutschland**

### Sample data

|                            |                        |   |             |
|----------------------------|------------------------|---|-------------|
| Name:                      | <b>Target Cross HG</b> | Size:   | <b>160</b>  |
| Steerable                  | <b>No</b>              | Maximum weight in flight <sup>(1)</sup> [kg]: | <b>160</b>  |
| Weight <sup>(2)</sup> [kg] | <b>1.83</b>            | volume packed [cm <sup>3</sup> ]:             | <b>5300</b> |
| Serial number:             | <b>1703160000051</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>08.06.2017</b>   | <b>08.06.2017</b>   |
| Inspector:    | <b>Alain Zoller</b> | <b>Alain Zoller</b> |

### Atmosphere AGL

|            | <b>Test no. 1</b> | <b>Test no. 2</b> |
|------------|-------------------|-------------------|
| [°C]       | <b>15</b>         | <b>16</b>         |
| RH [%]     | <b>60</b>         | <b>58</b>         |
| [hPa]      | <b>977.4</b>      | <b>977.6</b>      |
| Wind [m/s] | <b>0.1</b>        | <b>0.1</b>        |

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

|                                     | <b>EN</b>   | <b>LTF</b>  |
|-------------------------------------|-------------|-------------|
| Time of opening test [s]:           | <b>3.71</b> | <b>3.71</b> |
| Calculated descent rate test [m/s]: | <b>5.35</b> | <b>5.35</b> |
| Stability test:                     |             |             |
| Behaviour during descent test:      |             |             |

## Strength test - 40 m/s opening shock

Inspection certificate number: **EP\_185.2017**

**Test Report**

### Manufacturer data

Manufacturer name: **Findsterwalder GmbH**  
 Representative: **Thomas Finsterwalder**  
 Street: **Pagodenburgstrasse 8**  
 Post code / Place: **81247 München**  
 Country: **B.R. Deutschland**

### Sample data

Name: **Target Cross HG** Size: **160**  
 Steerable: **No** Maximum weight [kg]: **160**  
 Weight [kg]: **1.83** volume packed [cm<sup>3</sup>]: **5300**  
 Serial number: **1703160000052**

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

|                     | Test no. 1          | Test no. 2          |
|---------------------|---------------------|---------------------|
| Place of test       | <b>Illarsaz</b>     | <b>Illarsaz</b>     |
| Date of test        | <b>08.12.2016</b>   | <b>08.12.2016</b>   |
| Corrected mass [kg] | 164.85              | 164.85              |
| Inspector:          | <b>Alain Zoller</b> | <b>Alain Zoller</b> |

### Atmosphere AGL

|            | Test no. 1   | Test no. 2   |
|------------|--------------|--------------|
| [°C]       | <b>2</b>     | <b>2</b>     |
| RH [%]     | <b>67</b>    | <b>67</b>    |
| [hPa]      | <b>991.4</b> | <b>991.4</b> |
| Wind [m/s] | <b>0.2</b>   | <b>0.2</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<br>[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\_259.2023**

**Findsterwalder GmbH Diamond Cross M**

**Result summary**

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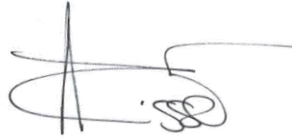
Inner container strength test. Applied minimum 700 N for at least 10 seconds and at maximum strength.

Duration at the required strength: **10.7 [s]**

Maximum strength before broken: **768.9 [N]**

Place of declaration: **Villeneuve**  
Date of issue: **30.08.2023**  
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<sup>(4)</sup> chapter 5.3.2 and NF L 2-565-20 chapter 6.1.8**

<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 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%.

<sup>(4)</sup> This standard is NOT covered by accreditation D-IS-19457-01

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Identification number: **MISC\_050.2017**

**Findsterwalder GmbH Diamond Cross HG**

**Result summary**

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Maximum strength for riser, bridle **26575.4 [N]**

Place of declaration **Villeneuve**  
Date of issue: **02.10.2017**  
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 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.

(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%.