



## Speed of opening, stability, descent rate

Inspection certificate number: **EP\_341.2023**

**Test Report**

### Manufacturer data

Manufacturer name: **Nova Vertriebsgesellschaft m.b.H.**  
 Representative: **Philipp Medicus**  
 Street: **Auweg 14**  
 Post code / Place: **6124 Terfens**  
 Country: **Austria**

### Sample data

Name:	<b>Pentagon light</b>	Size:	<b>85</b>
Steerable <sup>(1)</sup> :	<b>No</b>	Maximum weight in flight <sup>(2)</sup> [kg]:	<b>85</b>
Weight <sup>(3)</sup> [kg]:	<b>0.84</b>	volume packed [cm <sup>3</sup> ]:	<b>2700</b>
Serial number:	<b>500530</b>		

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

	Test no. 1	Test no. 2
Place of test:	<b>Villeneuve</b>	<b>Villeneuve</b>
Date of test:	<b>02.08.2022</b>	<b>09.08.2022</b>
Inspector:	<b>Claude Thurnheer</b>	<b>Claude Thurnheer</b>

### Atmosphere AGL

	Test no. 1	Test no. 2
[°C]	<b>25</b>	<b>23</b>
RH [%]	<b>45</b>	<b>65</b>
[hPa]	<b>1007</b>	<b>977</b>
Wind [m/s]	<b>1.4</b>	<b>0.2</b>

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

	EN	NfL
Time of opening test [s]:	<b>3.05</b>	<b>3.05</b>
Calculated descent rate test [m/s]:	<b>5.28</b>	<b>5.28</b>
Stability test:	<b>POSITIVE</b>	<b>POSITIVE</b>
Behaviour during descent test:	<b>Stable</b>	<b>Stable</b>

### If steerable:

	EN	NfL
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\_341.2023**

**Test Report**

### Manufacturer data

Manufacturer name: **Nova Vertriebsgesellschaft m.b.H.**  
 Representative: **Philipp Medicus**  
 Street: **Auweg 14**  
 Post code / Place: **6124 Terfens**  
 Country: **Austria**

### Sample data

Name: **Pentagon light** Size: **85**  
 Steerable **No** Maximum weight [kg]: **85**  
 Weight [kg] **0.84** Volume packed [cm<sup>3</sup>]: **2700**  
 Serial number: **500545**

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

	Test no. 1	Test no. 2
Place of test	<b>St-Cierge</b>	<b>St-Cierge</b>
Date of test	<b>19.12.2022</b>	<b>19.12.2022</b>
Maximum weight [kg]	<b>85</b>	<b>85</b>
Inspector:	<b>Nicolas Jacquod</b>	<b>Nicolas Jacquod</b>

### Atmosphere AGL

[°C]	<b>4.8</b>	<b>4.8</b>
RH [%]	<b>55</b>	<b>55</b>
[hPa]	<b>930</b>	<b>930</b>
Wind [m/s]	<b>0.2</b>	<b>0.2</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>	<b>2.9</b>	<b>2.9</b>



Identification number: **MISC\_224.2022**

**Nova Vertriebsgesellschaft m.b.H. Rescue Container Pentagon Light 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: **14.1 [s]**

Maximum strength before broken: **736.1 [N]**

Place of declaration: **Villeneuve**  
 Date of issue: **09.09.2022**  
 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<sup>(1)</sup> chapter 5.3.2 and NFL 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\_075.2018**

**Nova Vertriebsgesellschaft m.b.H. Pentagon riser light**

**Result summary**

Maximum strength for riser, bridle **27505.0 [N]**

Place of declaration **Villeneuve**  
Date of issue: **17.05.2018**  
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 91/09 chapter 6.1.4

Instrument	Validity	Manufacturer	Type no.	S/N
Load sensor	14.10.2019	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 measured lies within the assigned range of values with a probability of 95%.