

# Emergency parachute inspection certificate

Inspection certificate number: **EP\_357.2023**

## Manufacturer data

Manufacturer name: **Sky Paragliders a.s.**  
 Representative: **Michal Sotek**  
 Street: **Okruzni 39**  
 Post code / Place: **73911 Frydlant n.O.**  
 Country: **Czech Republic**

## Sample data

Name:	<b>Sky Quatro Light</b>	Size:	<b>225</b>
Steerable <sup>(1)</sup> :	<b>No</b>	Maximum weight in flight <sup>(2)</sup> [kg]:	<b>225</b>
Weight <sup>(3)</sup> [kg]:	<b>2.25</b>	Volume packed [cm <sup>3</sup> ]:	<b>6700</b>
Serial number flight:	<b>2857-12-1926</b>	Date of reception:	<b>29.08.2023</b>
Serial number strength:	<b>2856-12-1700</b>	Date of reception:	<b>27.06.2023</b>

## Test report summary

	Results	Place	Date
Speed of opening, descent rate, stability and glide ratio test 93.21	<b>POSITIVE</b>	Villeneuve	<b>28.09.2023</b>
Strength test / opening shock 93.21	<b>POSITIVE</b>	St-Cierges	<b>06.09.2023</b>
Inner container strength test 95.15 <sup>(4)</sup>	<b>MISC_189.2021</b>	Villeneuve	<b>21.06.2021</b>
Riser/bridle strength test 95.12 <sup>(5)</sup>	<b>MISC_265.2023</b>	Villeneuve	<b>10.01.2024</b>

## Issue data

Place of declaration: **Villeneuve**  
 Date of issue: **10.01.2024**  
 Managing director: **Andrea Wigger**  
 Signature:



This signature approves the validity of the test report 93.21

Air Turquoise SA has thoroughly tested the sample mentioned above and certifies its conformity with the following standards :

**EN 12491:2015+A1:2021<sup>(6)</sup> and NFL 2-565-20**

<sup>(1)</sup> Steerable: Emergency Parachute fitted with controls for steering and landing flare. <sup>(2)</sup> Total weight in flight excludes weight of paraglider, also called payload. <sup>(3)</sup> Weight of the emergency parachute - <sup>(4)</sup> and <sup>(5)</sup> this item can be use for several models.

<sup>(6)</sup> This standard is NOT covered by accreditation D-IS-19457-01

The certificate of inspection is completed with test reports number: 93.21, 95.12 and 95.15.

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Test laboratory for paragliders, paraglider harnesses  
and paraglider reserve parachutes



## Paragliding Emergency Parachute

Inspection number	<b>EP_357.2023</b>
Manufacturer	<b>Sky Paragliders a.s.</b>
Model and size	<b>Sky Quatro Light 225</b>
Steerable	<b>No</b>
Weight of model [kg]	<b>2.25</b>
Maximum weight in flight [kg]	<b>225</b>
Volume [cm <sup>3</sup> ]	<b>6700</b>
Flat area [m <sup>2</sup> ]	<b>48</b>
Total length of suspension lines [m] (from harness attachment to canopy when inflated)	<b>8.79</b>

Serial number : .....

Production date (year / month) : .....

**Warning** : not suitable for use at speed more than 32 m/s (115 km/h)  
Read the operating manual before using this equipment!

A sample has been tested and certifies its conformity with the following standards: **EN 12491:2015+A1:2021** and  
**NFL 2-565-20**. This model corresponds with the tested sample and its airworthiness.

Rev 10 | 04.03.2022 | ISO | 93.24



## Speed of opening, stability, descent rate

Inspection certificate number: EP\_357.2023

Test Report

### Manufacturer data

Manufacturer name: Sky Paragliders a.s.  
 Representative: Michal Sotek  
 Street: Okruzni 39  
 Post code / Place: 73911 Frydlant n.O.  
 Country: Czech Republic

### Sample data

Name: Sky Quatro Light Size: 225  
 Steerable <sup>(1)</sup>: No Maximum weight in flight <sup>(2)</sup> [kg]: 225  
 Weight <sup>(3)</sup> [kg]: 2.25 Volume packed [cm<sup>3</sup>]: 6700  
 Serial number: 2857-12-1926

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

	Test no. 1	Test no. 2
Measured opening time [s]:	3.38	2.75

#### Unsteerable parachute and steerable parachute with locked controls (if applicable)

Measured sink rate [m/s] ( $\leq 5.5$ ):	5.38	5.48
Stability test:	Stable	Stable

#### Steerable parachute and steerable parachute with unlocked controls (if applicable)

Measured sink rate [m/s] ( $\leq 4.0$ ):	n/a	n/a
Stability test:	n/a	n/a
Test of steerability:	n/a	n/a

### Test data

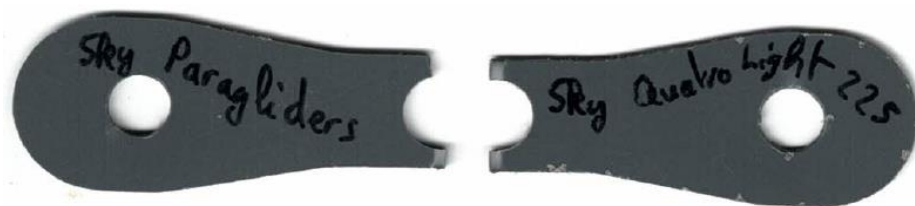
	Test no. 1	Test no. 2
Place of test	Villeneuve	Villeneuve
Date of test	30.08.2023	28.09.2023
Atmosphere AGL		
[°C]	15	18
RH [%]	78	74
[hPa]	965	970
Wind [m/s]	0.1	0.1
Corrected mass with uncertainty ( $m_{corr}$ ) [kg]:	215.0	213.1

#### If steerable with brake lock system

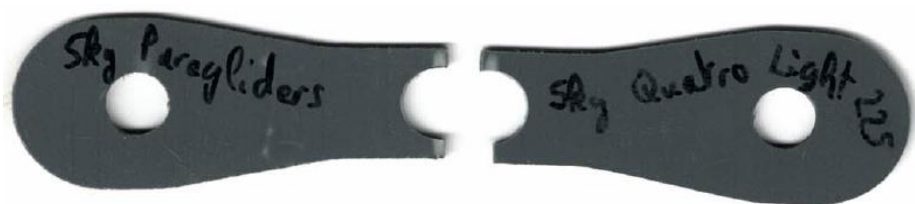
Place of test	n/a	n/a
Date of test	n/a	n/a
Atmosphere AGL		
[°C]	n/a	n/a
RH [%]	n/a	n/a
[hPa]	n/a	n/a
Wind [m/s]	n/a	n/a
Corrected mass with uncertainty ( $m_{corr}$ ) [kg]:	n/a	n/a

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**Weak link test no. 1**



**Weak link test no. 2**



Instrument & type no.	Validity	Manufacturer	S/N
Weak link	continuously	Tost	N/A
Line 30 meter	check every 12 months	Air Turquoise SA	N/A
Geos n° 11 Skywatch	18.06.2025	JDC elec.	Unit11

The validation of this test report is given by the signature of the test manager on inspection certificate 93.20

Air Turquoise SA has thoroughly tested the sample of emergency parachute mentioned above and certifies its conformity with the standards: **EN 12491:2015+A1:2021<sup>(6)</sup>** and **NfL 2-565-20**

<sup>(1)</sup> Steerable: Emergency Parachute fitted with controls for steering and landing flare. <sup>(2)</sup> Total weight in flight exclude weight of paraglider, also called payload - <sup>(3)</sup> Weight of the emergency parachute

<sup>(4)</sup>The rescue system is dropped from a paraglider in straight flight at 10 [m/s] +1 [m/s] and a vertical airspeed of less than 1,5 [m/s]. The paraglider is released as the rescue system begins to open. Wink link 200 [N] is used to measure the speed opening. After a minimum of 125 m of descent, the average rate of descent is measured over 30 m of descent. The stability is observed. The test is carried out twice (this may be with the same parachute or with identical item).

<sup>(5)</sup> The calculated value include the value minus the uncertainty / 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%. The tests do not include any compatibility tests with alternative inner containers. The maximum opening time should be 4 [s] up to and including 140 [kg] and 5 [s] above 140 [kg] according to the EN standard. For the NfL standard it should be a maximum of 5 [s]. The required maximum sink rate is for EN standard for unsteerable or steerable parachute with locked controls 5.5 [m/s], for steerable parachute with unlocked controls 4 [m/s], and for NfL standard 6.80 [m/s]. The final result for EN and for NfL is the worst case of both tests.

<sup>(6)</sup> This standard is NOT covered by accreditation D-IS-19457-01

## Strength test - 40 m/s opening shock

Inspection certificate number: **EP\_357.2023**

**Test Report**

### Manufacturer data

Manufacturer name: **Sky Paragliders a.s.**  
 Representative: **Michal Sotek**  
 Street: **Okruzni 39**  
 Post code / Place: **73911 Frydlant n.O.**  
 Country: **Czech Republic**

### Sample data

Name: **Sky Quatro Light**      Size: **225**  
 Steerable: **No**      Maximum weight [kg]: **225**  
 Weight [kg]: **2.25**      Volume packed [cm<sup>3</sup>]: **6700**  
 Serial number: **2856-12-1700**

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

	Test no. 1	Test no. 2
Place of test	<b>St-Cierges</b>	<b>St-Cierges</b>
Date of test	<b>29.06.2023</b>	<b>06.09.2023</b>
Maximum weight [kg]	<b>225</b>	<b>225</b>
Inspector:	<b>Nicolas Jacquod</b>	<b>Nicolas Jacquod</b>

### Atmosphere AGL

	Test no. 1	Test no. 2
[°C]	<b>18</b>	<b>19</b>
RH [%]	<b>67</b>	<b>78</b>
[hPa]	<b>966</b>	<b>926</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>	<b>2.9</b>	<b>2.9</b>



Item / type no.	Validity	Manufacturer	S/N
Weight	check every 12 months	Air Turquoise SA	N/A
Geos n° 11	18.06.2025	JDC elec.	Unit11
Weak link	continuously	Tost	N/A

The validation of this test report is given by the signature of the test manager on inspection certificate 93.20  
**Air Turquoise SA** has thoroughly tested the sample of emergency parachute mentioned above and certifies its conformity with the standards:  
**EN 12491:2015+A1:2021<sup>(3)</sup> and NfL 2-565-20**

<sup>(1)</sup> The emergency parachute (in its standard inner container and packed according to the user's manual instructions) is stowed on the drop test device. The test parachute's riser (or both risers in the case of a two riser parachute) is (are) connected to the single anchor point on the drop test device using the connector(s) specified and supplied by the parachute manufacturer.

The drop test device is accelerated to a straight line velocity of 40 m/s and the parachute deployed using its handle or handle attachment point by a static line attached to a drogue chute or similar low force deployment system.

The test is carried out twice with the same parachute. In case steerable parachute, in both tests, the controls shall remain locked.

<sup>(2)</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%.

<sup>(3)</sup> This standard is NOT covered by accreditation D-IS-19457-01