

Speed of opening, stability, descent rate

Inspection certificate number: **EP_349.2023**

Test Report

Manufacturer data

Manufacturer name: **Dudek Paragliders**
 Representative: **POWAIR sp. z o.o.**
 Street: **Ul. Centralna 2U**
 Post code / Place: **86-031 Osielsko**
 Country: **Poland**

Sample data

Name:	Quad Light	Size:	160
Steerable ⁽¹⁾ :	No	Maximum weight in flight ⁽²⁾ [kg]:	160
Weight ⁽³⁾ [kg]:	1.72	volume packed [cm ³]:	5300
Serial number:	2462-12-2354		

Test data ⁽⁴⁾

	Test no. 1	Test no. 2
Place of test:	Villeneuve	Villeneuve
Date of test:	18.02.2020	08.05.2020
Inspector:	Claude Thurnheer	Alain Zoller

Atmosphere AGL

[°C]	6.8	18
RH [%]	70	63
[hPa]	986.9	976.3
Wind [m/s]	0.2	0.1

Summary of both results ⁽⁵⁾

	EN	NfL
Time of opening test [s]:	3.38	3.38
Calculated descent rate test [m/s]:	5.35	5.35
Stability test:	POSITIVE	POSITIVE
Behaviour during descent test:	Stable	Stable

If steerable:

Any flight procedure and/or configuration described in the user's manual	N/A	N/A
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Strength test - 40 m/s opening shock

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 Representative: **POWAIR sp. z o.o.**
 Street: **Ul. Centralna 2U**
 Post code / Place: **86-031 Osielsko**
 Country: **Poland**

Sample data

Name:	Quad Light	Size:	160
Steerable	No	Maximum weight [kg]:	160
Weight [kg]	1.72	Volume packed [cm ³]:	5300
Serial number:	2462-12-2354		

Test data ⁽¹⁾

	Test no. 1	Test no. 2
Place of test	Illarsaz	Illarsaz
Date of test	06.02.2020	28.02.2020
Maximum weight [kg]	160	160
Inspector:	Alain Zoller	Alain Zoller

Atmosphere AGL

[°C]	1.5	2
RH [%]	67	63
[hPa]	985.2	977.5
Wind [m/s]	0.1	0.2

Test results

	Test no. 1	Test no. 2
Strength test (40m/s shock)	POSITIVE	POSITIVE
Aircraft speed uncertainty K=2 [m/s] ⁽²⁾	2.9	2.9

Identification number: **MISC_189.2021**

Sky Paragliders a.s. Sky Quatro 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: **13.4 [s]**

Maximum strength before broken: **792.7 [N]**

Place of declaration: **Villeneuve**
Date of issue: **21.06.2021**
Managing director: **Alain Zoller**

Signature:



This signature approves 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 NF1 2-565-20 chapter 6.1.8

Instrument	Validity	Manufacturer	Type no.	S/N
Load sensor 10kN SL2	21.04.2026	Burster / MTS	8431-6010-N000S00	593507
Winch	check every 12 month	Arwin	300/600	N/A
Geos n° 11 Skywatch	18.06.2025	JDC elec.	Geos n° 11	22

⁽¹⁾ Inner container: container of the folded emergency parachute.

⁽²⁾ 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.

⁽³⁾ 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%.

Identification number: **MISC_190.2021**

Sky Paragliders a.s. Sky Quatro Light

Result summary

Maximum strength for riser, bridle: **29604.1 [N]**

Place of declaration: **Villeneuve**
Date of issue: **21.06.2021**
Managing director: **Alain Zoller**

Signature:



This signature approves 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: **NFL 2-565-20 chapter 6.1.4**

Instrument	Validity	Manufacturer	Type no.	S/N
Load sensor	04.09.2023	HBM	1-S9M/50KN-1	31314652
Geos n° 11 Skywatch	18.06.2025	JDC elec.	Geos n° 11	22

⁽¹⁾ Riser: lowest part of the the parachute system, which is connected to the harness. Bridle: connection between risers and harness, can also be a strap.

⁽²⁾ 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 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%.