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Test laboratory for paragliders, paraglider harnesses
and paraglider reserve parachutes

paragliding by air turquoise

Speed of opening, stability, descent rate

Inspection certificate number: **EP_366.2024** **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:	**Nano SQ**	Size:	**25**
Steerable [1]:	**No**	Maximum weight in flight [2] [kg]:	**100**
Weight [3] [kg]:	**0.99**	Volume packed [cm³]:	**3350**
Serial number:	**R-04844**		

Test results [4]	**Test no. 1**	**Test no. 2**
Measured opening time [s]:	**3.18**	**2.75**

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

Measured sink rate [m/s] (≤ 5.5):	**5.13**	**5.28**
Stability test:	**Stable**	**Stable**

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

Measured sink rate [m/s] (≤ 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		**14.05.2024**	**17.05.2024**
Atmosphere AGL	[°C]	**1**	**12**
	RH [%]	**78**	**78**
	[hPa]	**958**	**966**
	Wind [m/s]	**0.4**	**0.4**
Corrected mass with uncertainty (m_{corr}) [kg]:		**100.2**	**96.3**

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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Strength test - 40 m/s opening shock

Inspection certificate number: **EP_366.2024**

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:	**Nano SQ**	Size:	**25**
Steerable	**No**	Maximum weight [kg]:	**100**
Weight [kg]	**0.987**	Volume packed [cm^3]:	**3350**
Serial number:	**R-04845**		

Test data (1)	**Test no. 1**	**Test no. 2**
Place of test	**St-Cierges**	**St-Cierges**
Date of test	**29.04.2024**	**29.04.2024**
Maximum weight [kg]	**100**	**100**
Inspector:	**Claude Thurnheer**	**Claude Thurnheer**
Atmosphere AGL		
[°C]	**7**	**7**
RH [%]	**73**	**73**
[hPa]	**924**	**924**
Wind [m/s]	**1**	**1**

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

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paragliding by air turquoise

Identification number: **MISC_296.2025**

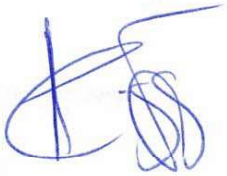
Dudek Paragliders Nano SQ-25 Riser

Result summary

Maximum strength for riser, bridle:	**25847.8** [N]
Duration at the requested load:	**7.0** [s]

Place of declaration: **Villeneuve**
Date of issue: **24.01.2025**
Managing director **Andrea Wigger**

Signature:



This signature approves the validity of the test report

Air Turquoise SA has thoroughly tested the sample of emergency parachute mentioned above and certifies its conformity with the standards: **EN 1651:2018+A1:2020[4] and NfL 2-565-20 chapter 6.1.4**

Instrument	Validity	Manufacturer	Type no.	S/N
Load sensor	23.08.2028	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%.

[4] This standards is NOT covered by accreditation D-IS-19457-01

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Identification number: **MISC_295.2025**

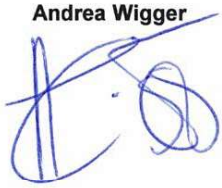
Dudek Paragliders Container one size

Result summary

Inner container strength test. Applied minimum 700 N for at least 10 seconds and at maximum strength.
Duration at the required strength: **28.4** [s]
Maximum strength before broken: **1217.7** [N]

Place of declaration: **Villeneuve**
Date of issue: **24.01.2025**
Managing director: **Andrea Wigger**

Signature:



Instrument	Validity	Manufacturer	Type no.	S/N
Load sensor 10kN SL2	23.08.2028	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[4] chapter 5.3.2 and NfL 2-565-20 chapter 6.1.8

[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%.

[4] This standard is NOT covered by accreditation D-IS-19457-01