

Emergency parachute inspection certificate

Inspection certificate number: **EP_212.2018**

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

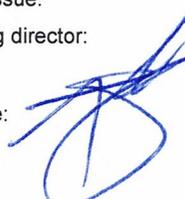
Name:	Sky Quatro	Size:	90
Steerable ⁽¹⁾	No	Maximum weight in flight ⁽²⁾ [kg]:	90
Weight ⁽³⁾ [kg]	1.232	volume packed [cm ³]:	4000
Serial number flight:	12-1543	Date of reception:	20.10.2017
Serial number strength:	2351-12-0706	Date of reception:	05.06.2018

Test report summary

	Results	Place	Date
Speed of opening, descent rate, stability and glide ratio test 71.5.1.1	POSITIVE	Villeneuve	15.01.2019
Strength test / opening shock 71.5.1.2	POSITIVE	Muraz	14.02.2019
Inner container strength test 71.5.1.4 ⁽⁴⁾	OK MISC_123.2019	Villeneuve	22.05.2019
Riser/bridle strength test 71.5.1.5 ⁽⁵⁾	OK MISC_131.2019	Villeneuve	28.06.2019

Issue data

Place of declaration: **Villeneuve**
 Date of issue: **25.07.2019**
 Managing director: **Alain Zoller**

Signature: 

This signature approve the validity of the test reports 71.5.1.1, 71.5.1.2, 71.5.1.4 and 71.5.1.5 (Only if test report are applicable).

Air Turquoise SA has thoroughly tested the sample of emergency parachute mentioned above and certifies its conformity with the following standards : **EN 12491:2015 and LTF NfL II 91/09 chapter 6 Paraglider rescue systems, LTF Ref chapter: 6, except 6.1.10**

⁽¹⁾ If Steerable: Emergency Parachute fitted with controls for steering and landing flare. ⁽²⁾ Total weight in flight exclude weight of paraglider, also called payload - ⁽³⁾ Weight of the emergency parachute - ⁽⁴⁾ and ⁽⁵⁾ this item can be use for several models. The drift is controled by anemometer Skywatch Eole.

This inspection certificate confirms that the above sample identified by its serial number and only this is in conforms with the standards.

The inspection certificate contain the tests mentioned above and it is complete with the test report number: 71.5.1.1 and 71.5.1.2. - 71.5.1.4 and 71.5.1.5 are also included, they can be tested independently.

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Test laboratory for paragliders, paraglider harnesses
and paraglider reserve parachutes



Paragliding Emergency Parachute

Inspection number	EP_212.2018
Manufacturer	Sky Paragliders a.s.
Model and size	Sky Quatro 90
Steerable	No
Weight of model [kg]	1.232
Maximum weight in flight [kg]	90
Volume [cm ³]	4000
Flat area [m ²]	22.5
Total length of suspension lines [m]	4.448

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 standard: **EN 12491:2015** and **LTF NFL II 91/09**
chapter 6.1.1-6.1.19 except 6.1.10. This model corresponds with the tested sample and its airworthiness.

RE | rev 06 | 22.12.2017 | ISO | 71.9.9



Speed of opening, stability, descent rate

Inspection certificate number: **EP_212.2018**

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	Size:	90
Steerable ⁽¹⁾	No	Maximum weight in flight ⁽²⁾ [kg]:	90
Weight ⁽³⁾ [kg]	1.232	volume packed [cm ³]:	4000
Serial number:	12-1543		

Test data ⁽⁴⁾

	Test no. 1	Test no. 2
Place of test	Villeneuve	Villeneuve
Date of test	19.12.2017	15.01.2019
Inspector:	Claude Thurnheer	Claude Thurnheer

Atmosphere AGL

	2.1	3
[°C]		
RH [%]	72	80
[hPa]	987.9	977.5
Wind [m/s]	0.2	0.1

Summary of both results ⁽⁵⁾

	EN	LTF
Time of opening test [s]:	3.99	3.99
Calculated descent rate test [m/s]:	5.20	5.20
Stability test:	POSITIVE	POSITIVE
Behaviour during descent test:	Stable	Stable
Glider ratio:	POSITIVE	

If steerable:

Any flight procedure and/or configuration described in the user's manual	N/A	N/A
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Inspection certificate number: **EP_212.2018**

Formula using to calculate corrected mass

$$m_{corr} := m_{dec} \cdot \frac{p \cdot T_0}{p_0 \cdot T}$$

Sink rate test no. 1 ⁽⁶⁾

Ground level atmospheric pressure at test location: (p)	987.9 [hPa]
ICAO standard atmospheric pressure at MSL: (p ₀)	1013.25 [hPa]
Ground level temperature at the test location: (T)	2.1 [°C]
	275.25 [°K]
ICAO standard temperature at MSL: (T ₀)	15 [°C]
	288.15 [°K]
Declared maximum payload: (m _{dec})	90 [kg]
Corrected mass: (m _{corr})	91.86 [kg]
Corrected mass with uncertainty: (m _{corr})	92.76 [kg]
Time when pilot release rescue	18.52 [s]
Time when weak link broken	21.24 [s]
Calculated speed opening [s]:	2.87 [s]
Time ball touch the water:	8.8 [s]
Time pilot touch the water:	14.72 [s]
Time between ball and pilot touching water (40m)	5.77 [s]
Calculated sink rate [m/s]:	5.20 [m/s]

Sink rate test no. 2 ⁽⁶⁾

Ground level atmospheric pressure at test location: (p)	977.5 [hPa]
ICAO standard atmospheric pressure at MSL: (p ₀)	1013.25 [hPa]
Ground level temperature at the test location: (T)	3 [°C]
	276.15 [°K]
ICAO standard temperature at MSL: (T ₀)	15 [°C]
	288.15 [°K]
Declared maximum payload: (m _{dec})	90 [kg]
Corrected mass: (m _{corr})	90.60 [kg]
Corrected mass with uncertainty: (m _{corr})	91.50 [kg]
Time when pilot release rescue	42.03 [s]
Time when weak link broken	45.87 [s]
Calculated speed opening [s]:	3.99 [s]
Time ball touch the water:	44.07 [s]
Time pilot touch the water:	52.33 [s]
Time between ball and pilot touching water (40m)	8.11 [s]
Calculated sink rate [m/s]:	4.93 [m/s]

Inspection certificate number: **EP_212.2018**

Weak link test no. 1



Weak link test no. 2



Instrument & type no.	Validity	Manufacturer	S/N
Weak link	2020	Tost	N/A
Line 40 meter	check every 12 months	Air Turquoise SA	N/A
Geos n° 11 Skywatch	08.05.2020	JDC elec.	22

The validation of this test report is given by the signature of the test manager on 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: **EN 12491:2015 chapter 5.1 to 5.3.1, 5.3.3, 5.3.4, 5.3.6 (if steerable) and LTF NfL II 91/09 chapter 6**

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

(4) 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 40 m of descent. The stability and glide ratio is observed.

The test is carried out twice (this may be with the same parachute or with identical item).

(5) 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. Required time from the instant of free drop until a load of 200 [N] is sustained for EN 4 [s] and for LTF 5 [s]. The required maximum sink rate is for EN 5.5 [m/s] and for LTF 6.80 [m/s]. If steerable the maximum sink rate for EN is 4 [m/s]. The final result for EN and for LTF is the worst case of both tests.

⁽⁶⁾ Condition for the descent rate test. A. At horizontal airspeed 10 m/s (+/- 1m/s) and vertical speed 1.5 m/s B. Formula to be used for correcting the test mass of differences from ICAO standard atmosphere.

Strength test - 40 m/s opening shock

Inspection certificate number: **EP_212.2018**

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** Size: **90**
 Steerable: **No** Maximum weight [kg]: **90**
 Weight [kg]: **1.232** volume packed [cm³]: **4000**
 Serial number: **2351-12-0706**

Test data ⁽¹⁾

	Test no. 1	Test no. 2
Place of test	Muraz	Muraz
Date of test	14.12.20218	14.02.2019
Corrected mass [kg]	90.15	92.61
Inspector:	Alain Zoller	Alain Zoller

Atmosphere AGL

	Test no. 1	Test no. 2
[°C]	2	3.5
RH [%]	55	72
[hPa]	959.5	991.3
Wind [m/s]	0.1	0.1

Test results

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



Inspection certificate number: **EP_212.2018**

Formula using to calculate corrected mass

$$m_{\text{corr}} := m_{\text{dec}} \cdot \frac{p \cdot T_0}{p_0 \cdot T}$$

Corrected mass for strength test no. 1

Ground level atmospheric pressure at test location: (p)	959.5 [hPa]
ICAO standard atmospheric pressure at MSL: (p ₀)	1013.25 [hPa]
Ground level temperature at the test location: (T)	2 [°C]
	275.15 [°K]
ICAO standard temperature at MSL: (T ₀)	15 [°C]
	288.15 [°K]
Declared maximum payload: (m _{dec})	90 [kg]
Corrected mass: (m _{corr})	89.25 [kg]
Corrected mass with uncertainty: (m _{corr})	90.15 [kg]

Corrected mass for strength test no. 2

Ground level atmospheric pressure at test location: (p)	991.3 [hPa]
ICAO standard atmospheric pressure at MSL: (p ₀)	1013.25 [hPa]
Ground level temperature at the test location: (T)	3.5 [°C]
	276.65 [°K]
ICAO standard temperature at MSL: (T ₀)	15 [°C]
	288.15 [°K]
Declared maximum payload: (m _{dec})	90 [kg]
Corrected mass: (m _{corr})	91.71 [kg]
Corrected mass with uncertainty: (m _{corr})	92.61 [kg]

The validation of this test report is given by the signature of the test manager on 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: **EN 12491:2015 chapter 5.1-5.3.1, 5.3.5, 5.3.6 - LTF NfL II 91/09 chapter 6**

⁽¹⁾ 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.

⁽²⁾ 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%.

Emergency parachute inspection certificate

Inspection certificate number: **EP_213.2018**

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	Size:	110
Steerable ⁽¹⁾	No	Maximum weight in flight ⁽²⁾ [kg]:	110
Weight ⁽³⁾ [kg]	1.462	volume packed [cm ³]:	4600
Serial number flight:	1474	Date of reception:	24.07.2017
Serial number strength:	2353-12-1006	Date of reception:	05.06.2018

Test report summary

	Results	Place	Date
Speed of opening, descent rate, stability and glide ratio test 71.5.1.1	POSITIVE	Villeneuve	12.12.2018
Strength test / opening shock 71.5.1.2	POSITIVE	Muraz	14.12.2018
Inner container strength test 71.5.1.4 ⁽⁴⁾	OK MISC_123.2019	Villeneuve	22.05.2019
Riser/bridle strength test 71.5.1.5 ⁽⁵⁾	OK MISC_131.2019	Villeneuve	28.06.2019

Issue data

Place of declaration: **Villeneuve**
 Date of issue: **25.07.2019**
 Managing director: **Alain Zoller**

Signature:



This signature approve the validity of the test reports 71.5.1.1, 71.5.1.2, 71.5.1.4 and 71.5.1.5 (Only if test report are applicable).

Air Turquoise SA has thoroughly tested the sample of emergency parachute mentioned above and certifies its conformity with the following standards : **EN 12491:2015 and LTF NfL II 91/09 chapter 6 Paraglider rescue systems, LTF Ref chapter: 6, except 6.1.10**

⁽¹⁾ If Steerable: Emergency Parachute fitted with controls for steering and landing flare. ⁽²⁾ Total weight in flight exclude weight of paraglider, also called payload - ⁽³⁾ Weight of the emergency parachute - ⁽⁴⁾ and ⁽⁵⁾ this item can be use for several models. The drift is controlled by anemometer Skywatch Eole.

This inspection certificate confirms that the above sample identified by its serial number and only this is in conforms with the standards.

The inspection certificate contain the tests mentioned above and it is complete with the test report number: 71.5.1.1 and 71.5.1.2. - 71.5.1.4 and 71.5.1.5 are also included, they can be tested independently.

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Test laboratory for paragliders, paraglider harnesses
and paraglider reserve parachutes



Paragliding Emergency Parachute

Inspection number	EP_213.2018
Manufacturer	Sky Paragliders a.s.
Model and size	Sky Quatro 110
Steerable	No
Weight of model [kg]	1.462
Maximum weight in flight [kg]	110
Volume [cm ³]	4600
Flat area [m ²]	27.5
Total length of suspension lines [m]	4.915

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 standard: **EN 12491:2015** and **LTF NFL II 91/09**
chapter 6.1.1-6.1.19 except 6.1.10. This model corresponds with the tested sample and its airworthiness.

RE | rev 06 | 22.12.2017 | ISO | 71.9.9



Speed of opening, stability, descent rate

Inspection certificate number: **EP_213.2018**

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	Size:	110
Steerable ⁽¹⁾	No	Maximum weight in flight ⁽²⁾ [kg]:	110
Weight ⁽³⁾ [kg]	1.462	volume packed [cm ³]:	4600
Serial number:	1474		

Test data ⁽⁴⁾

	Test no. 1	Test no. 2
Place of test	Villeneuve	Villeneuve
Date of test	21.11.2017	12.12.2018
Inspector:	Claude Thurnheer	Claude Thurnheer

Atmosphere AGL

	Test no. 1	Test no. 2
[°C]	2.7	3.2
RH [%]	77	62
[hPa]	978.2	974.9
Wind [m/s]	0.1	0.8

Summary of both results ⁽⁵⁾

	EN	LTF
Time of opening test [s]:	3.42	3.42
Calculated descent rate test [m/s]:	5.47	5.47
Stability test:	POSITIVE	POSITIVE
Behaviour during descent test:	Stable	Stable
Glider ratio:	POSITIVE	

If steerable:

Any flight procedure and/or configuration described in the user's manual	N/A	N/A
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Inspection certificate number: **EP_213.2018**

Formula using to calculate corrected mass

$$m_{corr} := m_{dec} \cdot \frac{p \cdot T_0}{p_0 \cdot T}$$

Sink rate test no. 1 ⁽⁶⁾

Ground level atmospheric pressure at test location: (p)	978.2 [hPa]
ICAO standard atmospheric pressure at MSL: (p ₀)	1013.25 [hPa]
Ground level temperature at the test location: (T)	2.7 [°C]
	275.85 [°K]
ICAO standard temperature at MSL: (T ₀)	15 [°C]
	288.15 [°K]
Declared maximum payload: (m _{dec})	110 [kg]
Corrected mass: (m _{corr})	110.93 [kg]
Corrected mass with uncertainty: (m _{corr})	111.83 [kg]
Time when pilot release rescue	16.96 [s]
Time when weak link broken	20.2 [s]
Calculated speed opening [s]:	3.39 [s]
Time ball touch the water:	10.08 [s]
Time pilot touch the water:	15.72 [s]
Time between ball and pilot touching water (30m)	5.49 [s]
Calculated sink rate [m/s]:	5.47 [m/s]

Sink rate test no. 2 ⁽⁶⁾

Ground level atmospheric pressure at test location: (p)	974.9 [hPa]
ICAO standard atmospheric pressure at MSL: (p ₀)	1013.25 [hPa]
Ground level temperature at the test location: (T)	3.2 [°C]
	276.35 [°K]
ICAO standard temperature at MSL: (T ₀)	15 [°C]
	288.15 [°K]
Declared maximum payload: (m _{dec})	110 [kg]
Corrected mass: (m _{corr})	110.36 [kg]
Corrected mass with uncertainty: (m _{corr})	111.26 [kg]
Time when pilot release rescue	15.93 [s]
Time when weak link broken	19.2 [s]
Calculated speed opening [s]:	3.42 [s]
Time ball touch the water:	22.67 [s]
Time pilot touch the water:	30.5 [s]
Time between ball and pilot touching water (40m)	7.68 [s]
Calculated sink rate [m/s]:	5.21 [m/s]

Inspection certificate number: **EP_213.2018**

Weak link test no. 1



Weak link test no. 2



Instrument & type no.	Validity	Manufacturer	S/N
Weak link	2020	Tost	N/A
Line 40 meter	check every 12 months	Air Turquoise SA	N/A
Geos n° 11 Skywatch	08.05.2020	JDC elec.	22

The validation of this test report is given by the signature of the test manager on 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: EN 12491:2015 chapter 5.1 to 5.3.1, 5.3.3, 5.3.4, 5.3.6 (if steerable) and LTF NFL II 91/09 chapter 6

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

(4) 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 40 m of descent. The stability and glide ratio is observed.

The test is carried out twice (this may be with the same parachute or with identical item).

(5) 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. Required time from the instant of free drop until a load of 200 [N] is sustained for EN 4 [s] and for LTF 5 [s]. The required maximum sink rate is for EN 5.5 [m/s] and for LTF 6.80 [m/s]. If steerable the maximum sink rate for EN is 4 [m/s]. The final result for EN and for LTF is the worst case of both tests.

⁽⁶⁾ Condition for the descent rate test. A. At horizontal airspeed 10 m/s (+/- 1m/s) and vertical speed 1.5 m/s B. Formula to be used for correcting the test mass of differences from ICAO standard atmosphere.

Strength test - 40 m/s opening shock

Inspection certificate number: **EP_213.2018****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** Size: **110**
 Steerable: **No** Maximum weight [kg]: **110**
 Weight [kg]: **1.462** volume packed [cm³]: **4600**
 Serial number: **2353-12-1006**

Test data ⁽¹⁾

	Test no. 1	Test no. 2
Place of test	Muraz	Muraz
Date of test	15.11.2018	14.12.2018
Corrected mass [kg]	109.78	109.99
Inspector:	Alain Zoller	Alain Zoller

Atmosphere AGL

	Test no. 1	Test no. 2
[°C]	8.7	2
RH [%]	75	55
[hPa]	981	959.5
Wind [m/s]	0.2	0.1

Test results

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

Inspection certificate number: **EP_213.2018**

Formula using to calculate corrected mass

$$m_{\text{corr}} := m_{\text{dec}} \cdot \frac{p \cdot T_0}{p_0 \cdot T}$$

Corrected mass for strength test no. 1

Ground level atmospheric pressure at test location: (p)	981 [hPa]
ICAO standard atmospheric pressure at MSL: (p ₀)	1013.25 [hPa]
Ground level temperature at the test location: (T)	8.7 [°C]
	281.85 [°K]
ICAO standard temperature at MSL: (T ₀)	15 [°C]
	288.15 [°K]
Declared maximum payload: (m _{dec})	110 [kg]
Corrected mass: (m _{corr})	108.88 [kg]
Corrected mass with uncertainty: (m _{corr})	109.78 [kg]

Corrected mass for strength test no. 2

Ground level atmospheric pressure at test location: (p)	959.5 [hPa]
ICAO standard atmospheric pressure at MSL: (p ₀)	1013.25 [hPa]
Ground level temperature at the test location: (T)	2 [°C]
	275.15 [°K]
ICAO standard temperature at MSL: (T ₀)	15 [°C]
	288.15 [°K]
Declared maximum payload: (m _{dec})	110 [kg]
Corrected mass: (m _{corr})	109.09 [kg]
Corrected mass with uncertainty: (m _{corr})	109.99 [kg]

The validation of this test report is given by the signature of the test manager on 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: **EN 12491:2015 chapter 5.1-5.3.1, 5.3.5, 5.3.6 - LTF NfL II 91/09 chapter 6**

⁽¹⁾ 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.

⁽²⁾ 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%.

Inner container strength test

Identification number: **MISC_123.2019**

Test Report

Manufacturer data

Manufacturer name: **Sky Paragliders**
 Representative: **Nemec Martin**
 Street: **Okruzni 39**
 Post code / Place: **73911 Frydlant N.C.**
 Country: **Czech Republic**

Sample data ⁽¹⁾

Name of inner container: **Sky Quatro** Size: **one size**
 Serial number: **n/a** volume packed [cm³]: **5050**
 Date of reception: **16.05.2019**

Test data

Place of test: **Villeneuve**
 Date of test: **16.05.2019**
 Inspector: **Alain Zoller**

Atmosphere AGL

[°C]: **22.3**
 RH [%]: **34**
 [hPa]: **966.2**

Results ⁽²⁾

Component no. 1 - load of 700 [N] applied for minimum 10 [s]: **28.4 [s]**
 Component no. 2 - load of 700 [N] applied for minimum 10 [s]: **10.8 [s]**
 Component no. 3 - load of 700 [N] applied for minimum 10 [s]: **n/a [s]**

Duration at the required strength, 1 out of 3 component [s]: **10.8 [s]**

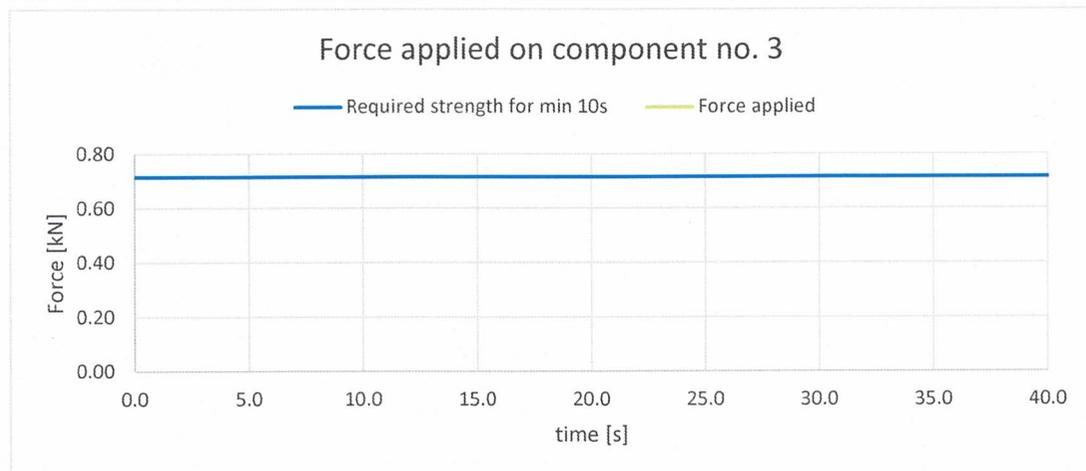
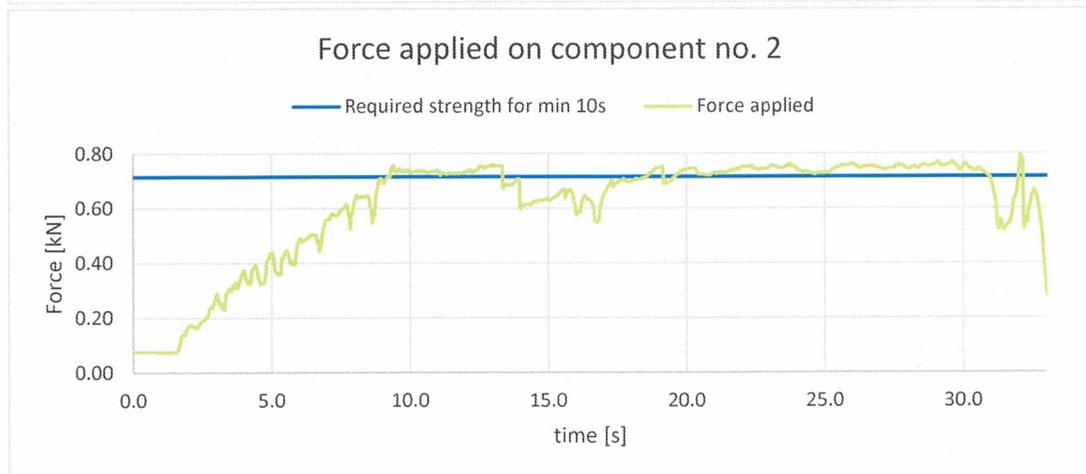
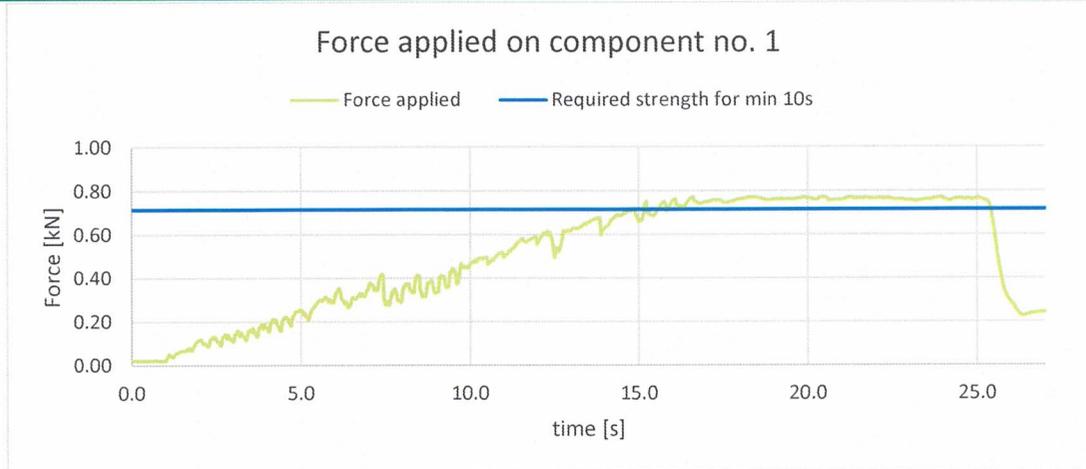
Component no. 1 maximum strength before broken [N]: **29232.6 [N]**
 Component no. 2 maximum strength before broken [N]: **777.3 [N]**
 Component no. 3 maximum strength before broken [N]: **n/a [N]**

The maximum strength before broken, 1 out of 3 component [N]: **777.3 [N]**

The uncertainty is included in the values above
 Uncertainty K=2 [N] ⁽³⁾: **21.7 [N]**

Identification number: **MISC_123.2019**

Graphic force diagram





Identification number: **MISC_123.2019**

Sky Paragliders Sky Quatro 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: **10.8 [s]**

The maximum strength before broken: **777.3 [N]**

Place of declaration **Villeneuve**
Date of issue: **22.05.2019**
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 riser/bridle mentioned above and certifies its conformity with the standards: EN 12491: 2015 chapter 5.3.2 and LTF NFL 91/09 chapter 6.1.8

Instrument	Validity	Manufacturer	Type no.	S/N
Load Cell (axial)	04.09.2023	Burster GmbH (DE)	8431-10000	1185483
Winch	check every 12 month	Arwin	300/600	N/A
Geos n° 11 Skywatch	08.05.2020	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 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%.

Riser/Bridle strength test

Identification number: **MISC_131.2019**

Test Report

Manufacturer data

Manufacturer name: **Sky Paragliders**
 Representative: **Nemec Martin**
 Street: **Okruzni 39**
 Post code / Place: **73911 Frydlant N.C.**
 Country: **Czech Republic**

Sample data ⁽¹⁾

Name of riser: **Rescue Riser (Sky Quatro)**
 Serial number: **n/a**
 Date of reception: **26.06.2019**

Test data

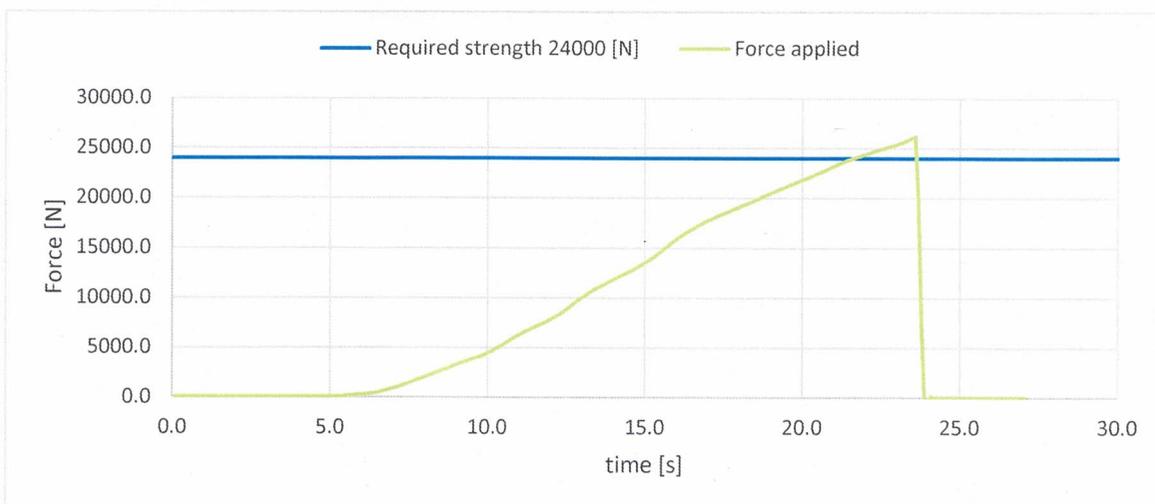
Atmosphere AGL

Place of test	Villeneuve	27.6 [°C]
Date of test	26.06.2019	60 RH [%]
Inspector:	Alain Zoller	979 [hPa]

Results ⁽²⁾

The maximum strength	POSITIVE	26062.0 [N]
Includes the uncertainty K=2 [N] ⁽³⁾ :		130.6 [N]

Graphic force diagram





Identification number: **MISC_131.2019**

Sky Paragliders Rescue Riser (Sky Quatro)

Result summary

Maximum strength for riser, bridle **26062.0 [N]**

Place of declaration **Villeneuve**
 Date of issue: **28.06.2019**
 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	04.09.2023	HBM	1-S9M/50KN-1	31314652
Geos n° 11 Skywatch	08.05.2020	JDC elec.	Geos n° 11	22

⁽¹⁾ Riser: lowest part of the parachute system, which is connected to harness. Bridle: connection between riser 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 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%.