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Test laboratory for paragliders, paraglider harnesses
and paraglider reserve parachutes

paragliding by air turquoise

Emergency parachute inspection certificate

Inspection certificate number: **EP_266.2018**

Manufacturer data

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

Sample data

Name:	**Sky System 3**	Size:	**90**
Steerable	**n/a**	Maximum weight in flight (1) [kg]:	**86**
Weight (2) [kg]	**1.4**	volume packed [cm^3]:	**4000**
Serial number flight:	**n/a**	Date of reception:	**10.01.2008**
Serial number strength:	**n/a**	Date of reception:	**n/a**

Test report summary	Results	Place	Date
Speed of opening,descent rate, stability and glide ratio test 71.5.1.1	**POSITIVE**	Villeneuve	**25.01.2008**
Strength test / opening shock 71.5.1.2	**POSITIVE**	France	**30.12.2006**
Steerable parachute flight test 71.5.1.3	**N/A**	Villeneuve	**n/a**
Inner container strength test 71.5.1.4 (3)	**POSITIVE**	Villeneuve	**17.02.2009**
Riser/bridle strength test 71.5.1.5 (4)	**POSITIVE**	Villeneuve	**29.09.2009**

Issue data

Place of declaration:	**Villeneuve**
Date of issue:	**23.01.2018**
Managing director:	**Alain Zoller**
Signature:	

This signature approve the validity of the test reports 71.5.1.1, 71.5.1.2, 71.5.1.3, 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 12491:2001 and LTF NFL II 91/09 chapter 6 Paraglider rescue systems, LTF Ref chapter: 6.1.1 to 6.1.19, except 6.1.10**

(1) Total weight in flight exclude weight of paraglider, also called payload - (2) Weight of the emergency parachute - (3) and (4) this item can be use for several models.

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, 71.5.1.2 and 71.5.1.3 only if stearable. 71.5.1.4 and 71.5.1.5 are aslo included, they can be tested independently.

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Test laboratory for paragliders, paraglider harnesses
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paragliding by air turquoise

Paragliding Emergency Parachute

Inspection number	**EP_266.2018**
Manufacturer	**Sky Paragliders**
Model and size	**Sky System 3 90**
Steerable	**n/a**
Weight of model [kg]	**1.4**
Maximum weight in flight [kg]	**86**
Volum [cm^3]	**4000**
Flat area [m^2]	**22.5**
Total length of suspension lines [m]	**4.84**

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 12491:2001 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.

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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_266.2018**

Test Report

Manufacturer data

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

Sample data

Name:	**Sky System 3**	Size:	**90**
Steerable	**n/a**	Maximum weight in flight (1) [kg]:	**86**
Weight (2) [kg]	**1.4**	volume packed [cm^3]:	**4000**
Serial number:	**n/a**		

Test data (3)	**Test no. 1**	**Test no. 2**
Place of test	**Villeneuve**	**Villeneuve**
Date of test	**10.01.2008**	**25.01.2008**
Inspector:	**Claude Thurnheer**	**Claude Thurnheer**
Atmosphere AGL		
[°C]	**4.6**	**3.4**
RH [%]	**71.2**	**83.9**
[hPa]	**975.5**	**991.7**
Wind [m/s]	**0**	**0**

Summary of both results (4)	**EN**	**LTF**
Time of opening test [s]:	**3.07**	**3.07**
Calculated descent rate test [m/s]:	**5.31**	**5.31**
Stability test:	**POSITIVE**	**POSITIVE**
Behaviour during descent test:	**Stable**	**Stable**
Glide ratio	**POSITIVE**	

Inspection certificate number: **EP_266.2018**

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 (5)

Ground level atmospheric pressure at test location: (p)	975.5	[hPa]
ICAO standard atmospheric pressure at MSL: (po)	1013.25	[hPa]
Ground level temperature at the test location: (T)	4.6	[°C]
	277.75	[°K]
ICAO standard temperature at MSL: (To)	15	[°C]
	288.15	[°K]
Declared maximum payloadt: (mdec)	86	[kg]
Corrected mass: (mcorr)	85.90	[kg]
Corrected mass with uncertainty: (mcorr)	86.80	[kg]
Time when pilot release rescue	0	[s]
Time when weak link broken	0	[s]
Calculated speed opening [s]:	**3.07**	[s]
Time ball touch the water:	0	[s]
Time pilot touch the water:	0	[s]
Time between ball and pilot touching water (30m)	-0.15	[s]
Calculated sink rate [m/s]:	**5.31**	[m/s]

Sink rate test no. 2 (5)

Ground level atmospheric pressure at test location: (p)	991.7	[hPa]
ICAO standard atmospheric pressure at MSL: (po)	1013.25	[hPa]
Ground level temperature at the test location: (T)	3.4	[°C]
	276.55	[°K]
ICAO standard temperature at MSL: (To)	15	[°C]
	288.15	[°K]
Declared maximum payloadt: (mdec)	86	[kg]
Corrected mass: (mcorr)	87.70	[kg]
Corrected mass with uncertainty: (mcorr)	88.60	[kg]
Time when pilot release rescue	0	[s]
Time when weak link broken	0	[s]
Calculated speed opening [s]:	**3.07**	[s]
Time ball touch the water:	0	[s]
Time pilot touch the water:	0	[s]
Time between ball and pilot touching water (30m)	-0.15	[s]
Calculated sink rate [m/s]:	**5.31**	[m/s]

Inspection certificate number: **EP_266.2018**

Weak link test no. 1

Weak link test no. 2

Instrument & type no.	Validity	Manufacturer	S/N
Weak link	2020	Tost	N/A
Line 30 meter	2020	Air Turquoise SA	N/A
Geos n° 11 Skywatch	08.05.2017	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 12491:2001 chapter 5.3.3** / **5.3.4 - LTF NFL II 9/09 chapter 6**

(1) Total weight in flight exclude weight of paraglider, also called payload - (2) Weight of the emergency parachute

(3)The rescue system is droped from a paraglider in straight flight at 8 [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. The stability and the glide ratio is observed.
After a minimum of 100 m of descent, the average rate of descent is measured over 30 m of descent.
The test is carried out twice.

(4) 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 measurand 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 5 [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]**. The final result is the worst case of both tests.

(5) Condition for the descent rate test. A. At horizontal airspeed 8 m/s and vertical speed 1.5 m/s B. Formula to be used for correcting the test mass ofr differences from ICAO standard atmosphere

Strength test - 40 m/s opening shock

Inspection certificate number: **EP_266.2018**

Test Report

Manufacturer data

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

Sample data

Name:	**Sky System 3**	Size:	**90**
Steerable	**n/a**	Maximum weight [kg]:	**86**
Weight [kg]	**1.4**	volume packed [cm^3]:	**4000**
Serial number:	**n/a**		

Test data (1)	**Test no. 1**	**Test no. 2**
Place of test	**France**	**France**
Date of test	**30.12.2006**	**30.12.2006**
Corrected mass [kg]	n/a	n/a
Inspector:	**Aerotest**	**Aerotest**
Atmosphere AGL		
[°C]	**n/a**	**n/a**
RH [%]	**n/a**	**n/a**
[hPa]	**n/a**	**n/a**
Wind [m/s]	**n/a**	**n/a**

Test results	**Test no. 1**	**Test no. 2**
Speed of opening (maximum 5 s)	**POSITIVE**	**POSITIVE**
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_266.2018**

Formula using to calculate corrected mass

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

Corrected mass for strength test no. 1

Ground level atmospheric pressure at test location: (p)	n/a [hPa]
ICAO standard atmospheric pressure at MSL: (po)	1013.25 [hPa]
Ground level temperature at the test location: (T)	n/a [°C]
	#VALUE! [°K]
ICAO standard temperature at MSL: (To)	15 [°C]
	288.15 [°K]
Declared maximum payloadt: (mdec)	86 [kg]
Corrected mass: (mcorr)	#VALUE! [kg]
Corrected mass with uncertainty: (mcorr)	**#VALUE!** [kg]

Corrected mass for strength test no. 2

Ground level atmospheric pressure at test location: (p)	n/a [hPa]
ICAO standard atmospheric pressure at MSL: (po)	1013.25 [hPa]
Ground level temperature at the test location: (T)	n/a [°C]
	#VALUE! [°K]
ICAO standard temperature at MSL: (To)	15 [°C]
	288.15 [°K]
Declared maximum payloadt: (mdec)	86 [kg]
Corrected mass: (mcorr)	#VALUE! [kg]
Corrected mass with uncertainty: (mcorr)	**#VALUE!** [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 12491:2001 chapter 5.3.5.1 - LTF NFL II 9/09 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.
Speed of opening must be less than 5 seconds and shock not exceeded 15g.

(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 measurand lies within the assigned range of values with a probability of 95%.

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Test laboratory for paragliders, paraglider harnesses
and paraglider reserve parachutes

paragliding by air turquoise

Emergency parachute inspection certificate

Inspection certificate number: **EP_267.2018**

Manufacturer data

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

Sample data

Name:	**Sky System 3**	Size:	**110**
Steerable	**n/a**	Maximum weight in flight [1] [kg]:	**105**
Weight [2] [kg]	**1.55**	volume packed [cm^3]:	**4400**
Serial number flight:	**n/a**	Date of reception:	**02.01.2008**
Serial number strength:	**n/a**	Date of reception:	**n/a**

Test report summary	Results	Place	Date
Speed of opening,descent rate, stability and glide ratio test 71.5.1.1	**POSITIVE**	Villeneuve	**07.02.2008**
Strength test / opening shock 71.5.1.2	**POSITIVE**	France	**30.12.2006**
Steerable parachute flight test 71.5.1.3	**N/A**	Villeneuve	**n/a**
Inner container strength test 71.5.1.4 [3]	**POSITIVE**	Villeneuve	**17.02.2009**
Riser/bridle strength test 71.5.1.5 [4]	**POSITIVE**	Villeneuve	**29.09.2009**

Issue data

Place of declaration:	**Villeneuve**
Date of issue:	**23.01.2018**
Managing director:	**Alain Zoller**
Signature:	

This signature approve the validity of the test reports 71.5.1.1, 71.5.1.2, 71.5.1.3, 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 12491:2001 and LTF NFL II 91/09 chapter 6 Paraglider rescue systems, LTF Ref chapter: 6.1.1 to 6.1.19, except 6.1.10**

[1] Total weight in flight exclude weight of paraglider, also called payload - [2] Weight of the emergency parachute - [3] and [4] this item can be use for several models.

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, 71.5.1.2 and 71.5.1.3 only if stearable. 71.5.1.4 and 71.5.1.5 are aslo included, they can be tested independently.

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Test laboratory for paragliders, paraglider harnesses
and paraglider reserve parachutes

paragliding by air turquoise

Paragliding Emergency Parachute

Inspection number	**EP_267.2018**
Manufacturer	**Sky Paragliders**
Model and size	**Sky System 3 110**
Steerable	**n/a**
Weight of model [kg]	**1.55**
Maximum weight in flight [kg]	**105**
Volum [cm^3]	**4400**
Flat area [m^2]	**26.3**
Total length of suspension lines [m]	**5.18**

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 12491:2001 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.

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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_267.2018**

Test Report

Manufacturer data

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

Sample data

Name:	**Sky System 3**	Size:	**110**
Steerable	**n/a**	Maximum weight in flight (1) [kg]:	**105**
Weight (2) [kg]	**1.55**	volume packed [cm^3]:	**4400**
Serial number:	**n/a**		

Test data (3)	**Test no. 1**	**Test no. 2**
Place of test	**Villeneuve**	**Villeneuve**
Date of test	**02.01.2008**	**07.02.2008**
Inspector:	**Alain Zoller**	**Alain Zoller**
Atmosphere AGL		
[°C]	**2.2**	**82.2**
RH [%]	**79.9**	**4.4**
[hPa]	**970.1**	**989.3**
Wind [m/s]	**0**	**0**

Summary of both results (4)	**EN**	**LTF**
Time of opening test [s]:	**3.07**	**3.07**
Calculated descent rate test [m/s]:	**5.36**	**5.36**
Stability test:		
Behaviour during descent test:		
Glide ratio		

Inspection certificate number: **EP_267.2018**

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 (5)

Ground level atmospheric pressure at test location: (p)	970.1	[hPa]
ICAO standard atmospheric pressure at MSL: (po)	1013.25	[hPa]
Ground level temperature at the test location: (T)	2.2	[°C]
	275.35	[°K]
ICAO standard temperature at MSL: (To)	15	[°C]
	288.15	[°K]
Declared maximum payloadt: (mdec)	105	[kg]
Corrected mass: (mcorr)	105.20	[kg]
Corrected mass with uncertainty: (mcorr)	106.10	[kg]
Time when pilot release rescue	0	[s]
Time when weak link broken	0	[s]
Calculated speed opening [s]:	**3.07**	[s]
Time ball touch the water:	0	[s]
Time pilot touch the water:	0	[s]
Time between ball and pilot touching water (30m)	-0.15	[s]
Calculated sink rate [m/s]:	**5.28**	[m/s]

Sink rate test no. 2 (5)

Ground level atmospheric pressure at test location: (p)	989.3	[hPa]
ICAO standard atmospheric pressure at MSL: (po)	1013.25	[hPa]
Ground level temperature at the test location: (T)	82.2	[°C]
	355.35	[°K]
ICAO standard temperature at MSL: (To)	15	[°C]
	288.15	[°K]
Declared maximum payloadt: (mdec)	105	[kg]
Corrected mass: (mcorr)	83.13	[kg]
Corrected mass with uncertainty: (mcorr)	84.03	[kg]
Time when pilot release rescue	0	[s]
Time when weak link broken	0	[s]
Calculated speed opening [s]:	**3.07**	[s]
Time ball touch the water:	0	[s]
Time pilot touch the water:	0	[s]
Time between ball and pilot touching water (30m)	-0.15	[s]
Calculated sink rate [m/s]:	**5.36**	[m/s]

Inspection certificate number: **EP_267.2018**

Weak link test no. 1

Weak link test no. 2

Instrument & type no.	Validity	Manufacturer	S/N
Weak link	2020	Tost	N/A
Line 30 meter	2020	Air Turquoise SA	N/A
Geos n° 11 Skywatch	08.05.2017	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 12491:2001 chapter 5.3.3** / **5.3.4 - LTF NFL II 9/09 chapter 6**

(1) Total weight in flight exclude weight of paraglider, also called payload - (2) Weight of the emergency parachute

(3)The rescue system is droped from a paraglider in straight flight at 8 [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. The stability and the glide ratio is observed.
After a minimum of 100 m of descent, the average rate of descent is measured over 30 m of descent.
The test is carried out twice.

(4) 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 measurand 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 5 [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]**. The final result is the worst case of both tests.

(5) Condition for the descent rate test. A. At horizontal airspeed 8 m/s and vertical speed 1.5 m/s B. Formula to be used for correcting the test mass ofr differences from ICAO standard atmosphere

Strength test - 40 m/s opening shock

Inspection certificate number: **EP_267.2018**

Test Report

Manufacturer data

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

Sample data

Name:	**Sky System 3**	Size:	**110**
Steerable	**n/a**	Maximum weight [kg]:	**105**
Weight [kg]	**1.55**	volume packed [cm^3]:	**4400**
Serial number:	**n/a**		

Test data (1)	**Test no. 1**	**Test no. 2**
Place of test	**France**	**France**
Date of test	**29.09.2009**	**29.09.2009**
Corrected mass [kg]	n/a	n/a
Inspector:	**Aerotest**	**Aerotest**
Atmosphere AGL		
[°C]	**n/a**	**n/a**
RH [%]	**n/a**	**n/a**
[hPa]	**n/a**	**n/a**
Wind [m/s]	**n/a**	**n/a**

Test results	**Test no. 1**	**Test no. 2**
Speed of opening (maximum 5 s)	**POSITIVE**	**POSITIVE**
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

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Test laboratory for paragliders, paraglider harnesses
and paraglider reserve parachutes

paragliding by air turquoise

Inspection certificate number: **EP_267.2018**

Formula using to calculate corrected mass

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

Corrected mass for strength test no. 1

Ground level atmospheric pressure at test location: (p)	n/a	[hPa]
ICAO standard atmospheric pressure at MSL: (po)	1013.25	[hPa]
Ground level temperature at the test location: (T)	n/a	[°C]
	#VALUE!	[°K]
ICAO standard temperature at MSL: (To)	15	[°C]
	288.15	[°K]
Declared maximum payloadt: (mdec)	105	[kg]
Corrected mass: (mcorr)	#VALUE!	[kg]
Corrected mass with uncertainty: (mcorr)	**#VALUE!**	[kg]

Corrected mass for strength test no. 2

Ground level atmospheric pressure at test location: (p)	n/a	[hPa]
ICAO standard atmospheric pressure at MSL: (po)	1013.25	[hPa]
Ground level temperature at the test location: (T)	n/a	[°C]
	#VALUE!	[°K]
ICAO standard temperature at MSL: (To)	15	[°C]
	288.15	[°K]
Declared maximum payloadt: (mdec)	105	[kg]
Corrected mass: (mcorr)	#VALUE!	[kg]
Corrected mass with uncertainty: (mcorr)	**#VALUE!**	[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 12491:2001 chapter 5.3.5.1 - LTF NFL II 9/09 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.
Speed of opening must be less than 5 seconds and shock not exceeded 15g.

(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 measurand lies within the assigned range of values with a probability of 95%.

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Test laboratory for paragliders, paraglider harnesses
and paraglider reserve parachutes

paragliding by air turquoise

Emergency parachute inspection certificate

Inspection certificate number: **EP_268.2018**

Manufacturer data

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

Sample data

Name:	**Sky System 3**	Size:	**135**
Steerable	**n/a**	Maximum weight in flight [1] [kg]:	**130**
Weight [2] [kg]	**1.85**	volume packed [cm^3]:	**4900**
Serial number flight:	**n/a**	Date of reception:	**01.04.2008**
Serial number strength:	**n/a**	Date of reception:	**n/a**

Test report summary	Results	Place	Date
Speed of opening,descent rate, stability and glide ratio test 71.5.1.1	**POSITIVE**	Villeneuve	**24.04.2008**
Strength test / opening shock 71.5.1.2	**POSITIVE**	France	**30.12.2006**
Steerable parachute flight test 71.5.1.3	**N/A**	Villeneuve	**n/a**
Inner container strength test 71.5.1.4 [3]	**POSITIVE**	Villeneuve	**17.02.2009**
Riser/bridle strength test 71.5.1.5 [4]	**POSITIVE**	Villeneuve	**29.09.2009**

Issue data

Place of declaration:	**Villeneuve**
Date of issue:	**23.01.2018**
Managing director:	**Alain Zoller**
Signature:	

This signature approve the validity of the test reports 71.5.1.1, 71.5.1.2, 71.5.1.3, 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 12491:2001 and LTF NFL II 91/09 chapter 6 Paraglider rescue systems, LTF Ref chapter: 6.1.1 to 6.1.19, except 6.1.10**

[1] Total weight in flight exclude weight of paraglider, also called payload - [2] Weight of the emergency parachute - [3] and [4] this item can be use for several models.

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, 71.5.1.2 and 71.5.1.3 only if stearable. 71.5.1.4 and 71.5.1.5 are aslo included, they can be tested independently.

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Test laboratory for paragliders, paraglider harnesses
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Paragliding Emergency Parachute

Inspection number	**EP_268.2018**
Manufacturer	**Sky Paragliders**
Model and size	**Sky System 3 135**
Steerable	**n/a**
Weight of model [kg]	**1.85**
Maximum weight in flight [kg]	**130**
Volum [cm^3]	**4900**
Flat area [m^2]	**32.5**
Total length of suspension lines [m]	**5.62**

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 12491:2001 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 05 | 12.01.2017 | ISO | 71.9.9

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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_268.2018**

Test Report

Manufacturer data

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

Sample data

Name:	**Sky System 3**	Size:	**135**
Steerable	**n/a**	Maximum weight in flight (1) [kg]:	**130**
Weight (2) [kg]	**1.85**	volume packed [cm^3]:	**4900**
Serial number:	**n/a**		

Test data (3)	**Test no. 1**	**Test no. 2**
Place of test	**Villeneuve**	**Villeneuve**
Date of test	**01.04.2008**	**24.04.2008**
Inspector:	**Alain Zoller**	**Alain Zoller**
Atmosphere AGL		
[°C]	**8.9**	**8**
RH [%]	**77.5**	**82.8**
[hPa]	**979**	**980**
Wind [m/s]	**0**	**0**

Summary of both results (4)	**EN**	**LTF**
Time of opening test [s]:	**3.07**	**3.07**
Calculated descent rate test [m/s]:	**5.47**	**5.47**
Stability test:	**POSITIVE**	**POSITIVE**
Behaviour during descent test:	**Stable**	**Stable**
Glide ratio	**POSITIVE**	

Inspection certificate number: **EP_268.2018**

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 (5)

Ground level atmospheric pressure at test location: (p)	979	[hPa]
ICAO standard atmospheric pressure at MSL: (po)	1013.25	[hPa]
Ground level temperature at the test location: (T)	8.9	[°C]
	282.05	[°K]
ICAO standard temperature at MSL: (To)	15	[°C]
	288.15	[°K]
Declared maximum payloadt: (mdec)	130	[kg]
Corrected mass: (mcorr)	128.32	[kg]
Corrected mass with uncertainty: (mcorr)	129.22	[kg]
Time when pilot release rescue	0	[s]
Time when weak link broken	0	[s]
Calculated speed opening [s]:	**3.07**	[s]
Time ball touch the water:	0	[s]
Time pilot touch the water:	0	[s]
Time between ball and pilot touching water (30m)	-0.15	[s]
Calculated sink rate [m/s]:	**5.47**	[m/s]

Sink rate test no. 2 (5)

Ground level atmospheric pressure at test location: (p)	980	[hPa]
ICAO standard atmospheric pressure at MSL: (po)	1013.25	[hPa]
Ground level temperature at the test location: (T)	8	[°C]
	281.15	[°K]
ICAO standard temperature at MSL: (To)	15	[°C]
	288.15	[°K]
Declared maximum payloadt: (mdec)	130	[kg]
Corrected mass: (mcorr)	128.86	[kg]
Corrected mass with uncertainty: (mcorr)	129.76	[kg]
Time when pilot release rescue	0	[s]
Time when weak link broken	0	[s]
Calculated speed opening [s]:	**3.07**	[s]
Time ball touch the water:	0	[s]
Time pilot touch the water:	0	[s]
Time between ball and pilot touching water (30m)	-0.15	[s]
Calculated sink rate [m/s]:	**5.47**	[m/s]

Inspection certificate number: **EP_268.2018**

Weak link test no. 1

Weak link test no. 2

Instrument & type no.	Validity	Manufacturer	S/N
Weak link	2020	Tost	N/A
Line 30 meter	2020	Air Turquoise SA	N/A
Geos n° 11 Skywatch	08.05.2017	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 12491:2001 chapter 5.3.3** / **5.3.4 - LTF NFL II 9/09 chapter 6**

(1) Total weight in flight exclude weight of paraglider, also called payload - (2) Weight of the emergency parachute

(3)The rescue system is droped from a paraglider in straight flight at 8 [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. The stability and the glide ratio is observed.
After a minimum of 100 m of descent, the average rate of descent is measured over 30 m of descent.
The test is carried out twice.

(4) 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 measurand 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 5 [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]**. The final result is the worst case of both tests.

(5) Condition for the descent rate test. A. At horizontal airspeed 8 m/s and vertical speed 1.5 m/s B. Formula to be used for correcting the test mass ofr differences from ICAO standard atmosphere

Strength test - 40 m/s opening shock

Inspection certificate number: **EP_268.2018**

Test Report

Manufacturer data

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

Sample data

Name:	**Sky System 3**	Size:	**135**
Steerable	**n/a**	Maximum weight [kg]:	**130**
Weight [kg]	**1.85**	volume packed [cm^3]:	**4900**
Serial number:	**n/a**		

Test data (1)	**Test no. 1**	**Test no. 2**
Place of test	**Illarsaz**	**Illarsaz**
Date of test	**dd.mm.yyyy**	**dd.mm.yyyy**
Corrected mass [kg]	#VALUE!	#VALUE!
Inspector:	**Alain Zoller**	**Alain Zoller**
Atmosphere AGL		
[°C]	**xx**	**xx**
RH [%]	**xx**	**xx**
[hPa]	**xxx**	**xxx**
Wind [m/s]	**x**	**x**

Test results	**Test no. 1**	**Test no. 2**
Speed of opening (maximum 5 s)		
Strength test (40m/s shock)		
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

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Inspection certificate number: **EP_268.2018**

Formula using to calculate corrected mass

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

Corrected mass for strength test no. 1

Ground level atmospheric pressure at test location: (p)	xxx [hPa]
ICAO standard atmospheric pressure at MSL: (po)	1013.25 [hPa]
Ground level temperature at the test location: (T)	xx [°C]
	#VALUE! [°K]
ICAO standard temperature at MSL: (To)	15 [°C]
	288.15 [°K]
Declared maximum payloadt: (mdec)	130 [kg]
Corrected mass: (mcorr)	#VALUE! [kg]
Corrected mass with uncertainty: (mcorr)	**#VALUE!** [kg]

Corrected mass for strength test no. 2

Ground level atmospheric pressure at test location: (p)	xxx [hPa]
ICAO standard atmospheric pressure at MSL: (po)	1013.25 [hPa]
Ground level temperature at the test location: (T)	xx [°C]
	#VALUE! [°K]
ICAO standard temperature at MSL: (To)	15 [°C]
	288.15 [°K]
Declared maximum payloadt: (mdec)	130 [kg]
Corrected mass: (mcorr)	#VALUE! [kg]
Corrected mass with uncertainty: (mcorr)	**#VALUE!** [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 12491:2001 chapter 5.3.5.1 - LTF NFL II 9/09 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.
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Speed of opening must be less than 5 seconds and shock not exceeded 15g.

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