

Paraglider inspection certificate

Inspection certificate number: **PG_1430.2018**

Manufacturer data

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

Sample data

Name:	Kea 2	Size:	XS
Min weight in flight [kg]:	55	Max weight in flight [kg]:	70
Weight [kg]:	2.76	Number of seat:	Single-seater
Sample load serial number:	n/a	Date of reception:	n/a
Sample flight serial number :	1961-11-1415	Date of reception:	12.03.2015

Test report summary	Result	Place	Date of test
71.8.3 Shock loading test:	Test done on size XL, inspection PG_1434.2018		21.08.2018
71.8.3 Sustained loading test:	Test done on size XL, inspection PG_1434.2018		21.08.2018
71.8.2 Flight test:	B	Villeneuve	12.03.2015
71.4.3 Measurement:	POSITIVE	Villeneuve	15.01.2015
71.6.3 Line bending test:	POSITIVE	Villeneuve	06.12.2018

Issue data

Place of declaration: **Villeneuve**
 Date of issue: **11.12.2018**
 Managing Director: **Alain Zoller**
 Signature: 

This signature approve the validity of the test reports 71.8.2, 71.8.3, 71.4.3 and 71.6.3 (Only if test report are applicable).

Air Turquoise SA has thoroughly tested the sample of paraglider mentioned above and certifies its conformity with the following standards : EN 926-2:2013 / EN 926-1:2015 / LTF: NFL II 91/09 / 2-60-14 / 2-251-16

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 following test and is complete with the test report number: 71.8.2, 71.8.3, 71.4.3, 71.6.3
 (If the 71.8.3 tests are not done, it has been done for another size of a sample within the definition of same model)

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Test laboratory for paragliders, paraglider harnesses
and paraglider reserve parachutes



Classification: **B**

In accordance with standards EN 926-2:2013, EN 926-1:2015 & LTF 91/09:

PG_1430.2018

Date of issue (DMY):

11.12.2018

Manufacturer:

Sky Paragliders a.s.

Model:

Kea 2 XS

Serial number:

1961-11-1415

Configuration during flight tests

Paraglider

Maximum weight in flight (kg)	70
Minimum weight in flight (kg)	55
Glider's weight (kg)	2.76
Number of risers	4
Projected area (m2)	19.35

Accessories

Range of speed system (cm)	15
Speed range using brakes (km/h)	13
Total speed range with accessories (km/h)	25
Range of trimmers (cm)	0

Harness used for testing (max weight)

Harness type	ABS
Harness brand	Supair
Harness model	Altiplume M
Harness to risers distance (cm)	43
Distance between risers (cm)	40

Inspections (whichever happens first)

every 12 months or every 100 flying hours
Warning! Before use refer to user's manual
Person or company having presented the glider for testing: **None**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
A A A A A A A A A B A A A B A A A A B A A 0

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Test laboratory for paragliders, paraglider harnesses
and paraglider reserve parachutes



Classification: **A**

In accordance with standards EN 926-2:2013, EN 926-1:2015 & LTF 91/09:

PG_1431.2018

Date of issue (DMY):

11.12.2018

Manufacturer:

Sky Paragliders a.s.

Model:

Kea 2 S

Serial number:

1960-11-1340

Configuration during flight tests

Paraglider

Maximum weight in flight (kg)	81
Minimum weight in flight (kg)	64
Glider's weight (kg)	2.85
Number of risers	4
Projected area (m2)	20.67

Accessories

Range of speed system (cm)	16
Speed range using brakes (km/h)	13
Total speed range with accessories (km/h)	25
Range of trimmers (cm)	0

Harness used for testing (max weight)

Harness type	ABS
Harness brand	Supair
Harness model	Access M

Inspections (whichever happens first)

every 12 months or every 100 flying hours
Warning! Before use refer to user's manual
Person or company having presented the glider for testing: **None**

Harness to risers distance (cm) **43**

Distance between risers (cm) **44**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
A 0

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and paraglider reserve parachutes



Classification: **A**

In accordance with standards EN 926-2:2013, EN 926-1:2015 & LTF 91/09:

PG_1432.2018

Date of issue (DMY):

11.12.2018

Manufacturer:

Sky Paragliders a.s.

Model:

Kea 2 M

Serial number:

2254-11-0928

Configuration during flight tests

Paraglider

Maximum weight in flight (kg)	94
Minimum weight in flight (kg)	74
Glider's weight (kg)	2.95
Number of risers	4
Projected area (m2)	22.08

Accessories

Range of speed system (cm)	16
Speed range using brakes (km/h)	13
Total speed range with accessories (km/h)	25
Range of trimmers (cm)	0

Harness used for testing (max weight)

Harness type	ABS
Harness brand	Gin Gliders
Harness model	Gingo 2 L
Harness to risers distance (cm)	43
Distance between risers (cm)	44

Inspections (whichever happens first)

every 12 months or every 100 flying hours
Warning! Before use refer to user's manual
Person or company having presented the glider for testing: **None**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
A 0



Paraglider inspection certificate

Inspection certificate number: **PG_1433.2018**

Manufacturer data

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

Sample data

Name:	Kea 2	Size:	L
Min weight in flight [kg]:	85	Max weight in flight [kg]:	108
Weight [kg]:	3.05	Number of seat:	Single-seater
Sample load serial number:	n/a	Date of reception:	n/a
Sample flight serial number :	M1159-11-0847	Date of reception:	28.10.2014

Test report summary	Result	Place	Date of test
71.8.3 Shock loading test:	Test done on size XL, inspection PG_1434.2018		21.08.2018
71.8.3 Sustained loading test:	Test done on size XL, inspection PG_1434.2018		21.08.2018
71.8.2 Flight test:	A	Villeneuve	28.10.2014
71.4.3 Measurement:	POSITIVE	Villeneuve	14.01.2015
71.6.3 Line bending test:	POSITIVE	Villeneuve	06.12.2018

Issue data

Place of declaration: **Villeneuve**
 Date of issue: **11.12.2018**
 Managing Director: **Alain Zoller**

Signature:

This signature approve the validity of the test reports 71.8.2, 71.8.3, 71.4.3 and 71.6.3 (Only if test report are applicable).

Air Turquoise SA has thoroughly tested the sample of paraglider mentioned above and certifies its conformity with the following standards : EN 926-2:2013 / EN 926-1:2015 / LTF: NFL II 91/09 / 2-60-14 / 2-251-16

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Test laboratory for paragliders, paraglider harnesses
and paraglider reserve parachutes



Classification: **A**

In accordance with standards EN 926-2:2013, EN 926-1:2015 & LTF 91/09:

PG_1433.2018

Date of issue (DMY):

11.12.2018

Manufacturer:

Sky Paragliders a.s.

Model:

Kea 2 L

Serial number:

M1159-11-0847

Configuration during flight tests

Paraglider

Maximum weight in flight (kg)	108
Minimum weight in flight (kg)	85
Glider's weight (kg)	3.05
Number of risers	4
Projected area (m2)	23.58

Accessories

Range of speed system (cm)	17
Speed range using brakes (km/h)	13
Total speed range with accessories (km/h)	25
Range of trimmers (cm)	0

Harness used for testing (max weight)

Harness type	ABS
Harness brand	Gin Gliders
Harness model	Gingo 2 L
Harness to risers distance (cm)	43
Distance between risers (cm)	48

Inspections (whichever happens first)

every 12 months or every 100 flying hours
Warning! Before use refer to user's manual
Person or company having presented the glider for testing: **None**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
A 0

Paraglider inspection certificate

Inspection certificate number: **PG_1434.2018**

Manufacturer data

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

Sample data

Name:	Kea 2	Size:	XL
Min weight in flight [kg]:	99	Max weight in flight [kg]:	125
Weight [kg]:	3.15	Number of seat:	Single-seater
Sample load serial number:	11-0759	Date of reception:	21.08.2018
Sample flight serial number :	1961-11-1416	Date of reception:	23.12.2014

Test report summary	Result	Place	Date of test
71.8.3 Shock loading test:	POSITIVE	Yverdon(airport)	21.08.2018
71.8.3 Sustained loading test:	POSITIVE	Yverdon(airport)	21.08.2018
71.8.2 Flight test:	A	Villeneuve	23.12.2014
71.4.3 Measurement:	POSITIVE	Villeneuve	14.01.2018
71.6.3 Line bending test:	POSITIVE	Villeneuve	06.12.2018

Issue data

Place of declaration: **Villeneuve**
 Date of issue: **11.12.2018**
 Managing Director: **Alain Zoller**
 Signature: 

This signature approve the validity of the test reports 71.8.2, 71.8.3, 71.4.3 and 71.6.3 (Only if test report are applicable).

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Classification: A

In accordance with standards EN 926-2:2013, EN 926-1:2015 & LTF 91/09:

PG_1434.2018

Date of issue (DMY):

11.12.2018

Manufacturer:

Sky Paragliders a.s.

Model:

Kea 2 XL

Serial number:

1961-11-1416

Configuration during flight tests

Paraglider

Maximum weight in flight (kg)	125
Minimum weight in flight (kg)	99
Glider's weight (kg)	3.15
Number of risers	4
Projected area (m2)	25.19

Accessories

Range of speed system (cm)	17
Speed range using brakes (km/h)	13
Total speed range with accessories (km/h)	25
Range of trimmers (cm)	0

Harness used for testing (max weight)

Harness type	ABS
Harness brand	Niviuk
Harness model	Hamak XL
Harness to risers distance (cm)	44
Distance between risers (cm)	48

Inspections (whichever happens first)

every 12 months or every 100 flying hours
 Warning! Before use refer to user's manual
 Person or company having presented the glider for testing: **None**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
A 0

Paragliders Shock- and sustained loading test

Inspection certificat number: **PG_143432018****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

Name: **Kea 2**
 Size: **XL**
 Maximum weight in flight [kg]: **125**
 Serial number: **11-0759**
 Date of reception: **21.08.2018**

Test data

Test Atmosphere AGL

Place of test:	Yverdon (airport)	14.9	[°C]
Date of test:	21.08.2018	76	RH [%]
Inspector:	Alain Zoller	968.3	[hPA]
		0.1	Wind [m/s]

Shock loading test result ⁽¹⁾

Weak link used [daN]: **1000**
 Visual inspection: **No visible damage** Results: **POSITIVE**
 Uncertainty k=2 [%] ⁽²⁾ **10**

Weak link



Instruments	Validity	Manufacturer	s/n
Weak link	2020	Tost	n/a
Cable	2020	Rotex	n/a
Geos n° 11 Skywatch	08.05.2019	JDC elec.	22

Inspection certificate number: **PG_143432018**

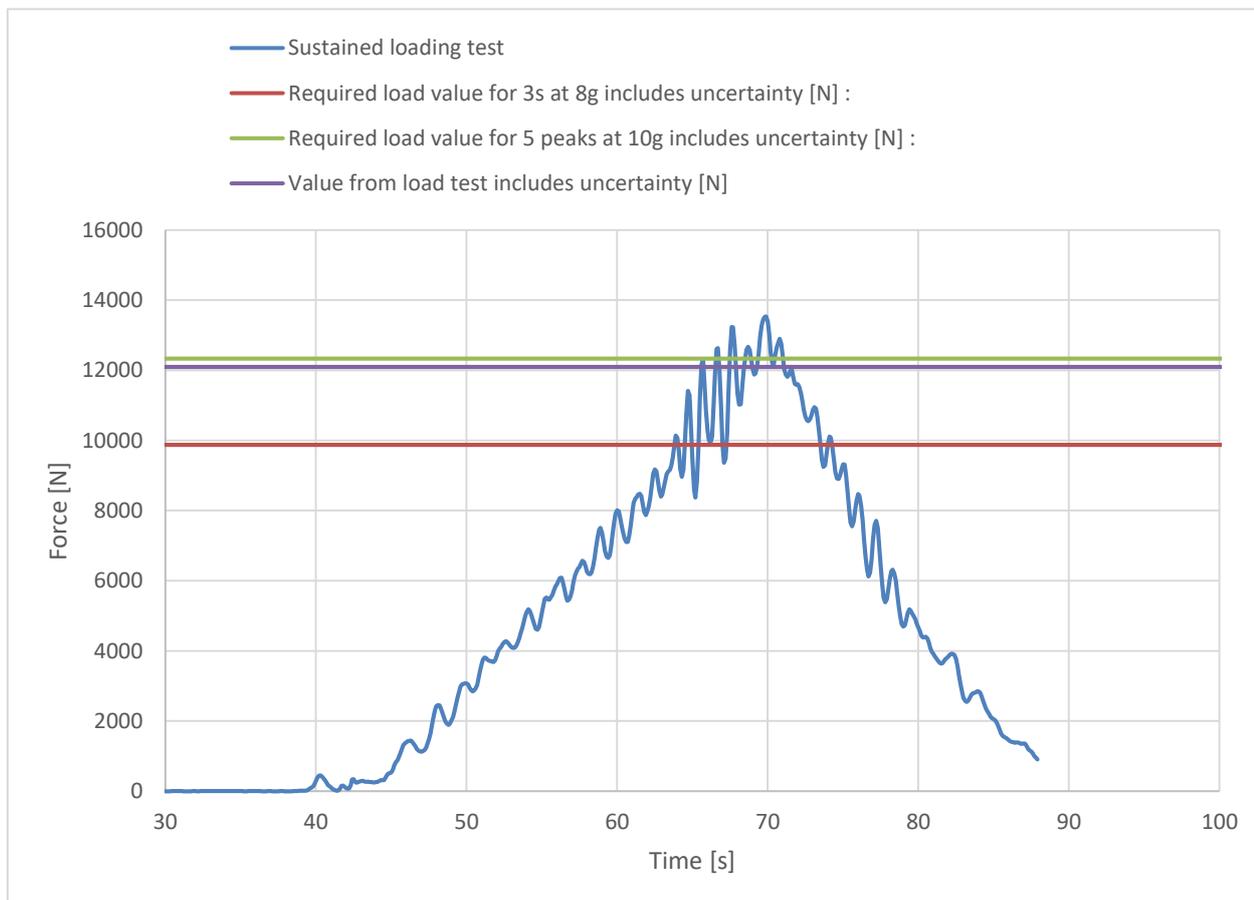
Sustained loading test results ⁽³⁾

Result : **POSITIVE**
Calculated max load value with 3 sec or five peaks [kg] : **154.09**

Required sustained loading test results ⁽⁴⁾

Required load value for 3s at 8g [N] : **9810.00**
Required load value for 5 peaks at 10g [N] : **12262.50**
Required load value for 3s at 8g includes uncertainty [N] : **9875.96**
Required load value for 5 peaks at 10g includes uncertainty [N] : **12328.46**
Uncertainty K=2 [%] : **0.487**

Graphic sustained loading diagram





Inspection certificate number: **PG_143432018**

Detailed sustained loading test results

Calculated cumulative duration at max load [s] : **3.1**

Calculated max load value duration of 3 sec. [N] : **1511.63**

Calculated max load value duration of 3 sec. [kg] : **154.09**

Calculated max load value with five peaks [N] : **n/a**

Calculated max load value with five peaks [kg] : **n/a**

Calculated max load value with 3 sec or five peaks [N] : **1511.63**

Calculated max load value with 3 sec or five peaks [kg] : **154.09**

Instruments	Manufacturer	Type nr.	S/N
Load sensor	HBM	1-S9M/50KN-1	31314652
Geos n°11 Skywatch	JDC	Geos n° 11	0022

The validation of this test report is given by the signature of the test manager on inspection certificate 71.8.1

Air Turquoise SA has thoroughly tested the sample of paraglider mentioned above and certifies its conformity with the standards **EN 926-1:2015 chapter 4.4, 4.5 | LTF NFL II-91/09 chapter 3**

(1) The paraglider is subjected to a shock load . Shock load is limited using a weak link according to the weight range of glider. The weak link breaks or 5 s has elapsed since the start of the shock load. The wing is then visually inspected for damage.

(2) Weak link value include the uncertainty for weight range test values / The uncertainty state 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%.

(3) The test specimen (sample) is attached to the electronic sensors on the tow vehicle.

A controller is positioned on the tow vehicle in order to operate the paraglider control lines to stabilize the wing.

The speed of the vehicle is increased as gradually as possible, enabling the controller to obtain satisfactory stabilisation of the flight path of the paraglider.

When the paraglider has stabilized, the speed is increased gradually until either:

- a) the measured load exceeds a load factor of eight times the maximum total weight in flight recommended by the manufacturer, for a minimum cumulative duration of 3 s; or
- b) five peaks separated by at least 0,3 s are obtained above ten times the maximum total weight in flight recommended by the manufacturer, in one run.

(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%.