



**Sky Paragliders a.s.**  
Mr. Nemeč Martin  
Okružní 39  
73911 Frýdlant nad Ostravicí  
Czech Republic

# Certificate

The hereunder sample of paraglider has been tested  
in accordance with following standards:  
EN 12491:2001

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Certificate number:..... **EP 024.2010**  
Manufacturer:..... **Sky Paragliders**  
Model and size:..... **Sky Spare Light M**  
Maximum weight in flight:..... **86 kg**  
Weight of the Emergency Parachute:..... **1350 gram**

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Best Regards,

  
Alain Zoller

  
Randi Eriksen





Conformity tests according to EN 12491:2001  
Conformity number **EP 024.2010**

MANUFACTURER \_\_\_\_\_ Sky Paragliders  
MODEL \_\_\_\_\_ Sky Spare Light M  
YEAR AND MONTH OF MANUFACTURE .....

MAXI LOAD WEIGHT IN FLIGHT \_\_\_\_\_ 86 kg  
FLAT AERA \_\_\_\_\_ 22.5 m<sup>2</sup>  
WEIGHT OF THE MODEL \_\_\_\_\_ 1350gr  
TOTAL LENGHT (end of the riser to canopy top uninflated) \_\_\_\_\_ 4250 cm

Warning: not suitable for use at speeds in excess  
of 32 m/s (115 km/h)  
Before use referto the user's manual.

Serial number: .....  
Conformity tests according to EN 12491:2001 standards carried out by:

[para-fest.com](http://para-fest.com)



paragliding by air turquoise

Air Turquoise SA  
Rte du Pré-au-Comte 8 | CH-1844 Villeneuve  
tel. +41 21 965 65 65 | mobile +41 79 202 52 30  
info@para-fest.com

## Flight and Load test report - EN 12491:2001

**Manufacturer** Sky Paragliders a.s.  
**Address** Okružní 39  
 73911 Frýdlant nad Ostravicí  
 Czech Republic

**Certification number:** EP 024.2010  
**Type/model:** Sky Spare Light M  
**Total weight in flight:** 86 kg

Description of tests	place:	date:	result:
<b>1. Deployment system strength test</b> A load of 700 N between each components	Villeneuve	17/02/2009	OK
<b>2. Speed of opening test - ref. A (2 times)</b> Time from the instant of free drop until a load of 200 N is sustained Opening time Opening time	Villeneuve Villeneuve	10/01/2008 25/01/2008	< 5 seconds < 5 seconds
<b>3. Descent rate and stability test - ref. A and B (2 times)</b> The paraglider is released as the parachute begins to open, minimum 100 m descent. Stability 1 Sink rate 1 Stability 2 Sink rate 2	Villeneuve Villeneuve Villeneuve Villeneuve	10/01/2008 10/01/2008 25/01/2008 25/01/2008	Stable 5.31 m/s Stable 5.31 m/s
<b>4. Strength test 40 m/s opening shock (2 times)</b> The drop test device is accelerated to a straight line velocity of 40 m/s and the parachute deployment handle activated using a static line attached to a drogue chute. Speed of opening is less than 5 seconds Test 1 Test 2	France France	30/12/2006 30/12/2006	OK, done by Aerotests OK, done by Aerotests
<b>5. Interaction and stability test (piloted) - ref. C</b> a the emergency parachute is deployed from a paraglider in normal straight flight. b the pilot shall take no action while the behaviour of the parachute and paraglider are observed 200 metres. c the pilot take action while the behaviour of the parachute and paraglider are observed 200 metres.			not available  not available  not available

The model described is in conformity with the flight and load tests carried out by Air Turquoise SA.



For Air Turquoise SA

*Randi Eriksen*  
 Randi Eriksen

**Air Turquoise SA**  
 Route du Pré-au-Comte 8  
 Case postale 10  
 CH- 1844 Villeneuve  
 email: info@para-test.com

homepage: www.para-test.com



## Weather data, ref. 3 and B

Date / place	hPa	wind	temp	humidity
10/01/2008 Villeneuve	975.5	0	4.6°	71.2%
	Corrected mass: <b>85.9 kg</b>			
25/01/2008 Villeneuve	991.7	0	3.4°	83.9%
	Corrected mass: <b>87.7 kg</b>			

## Reference

A. At horizontal airspeed 8 m/s and vertical speed 1.5 m/s

B. Formula to be used for correcting the test mass off differences from ICAO standard atmosphere

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

Ground level atmospheric pressure at the test location: (p)

ICAO standard atmospheric pressure at MSL: (p<sub>0</sub>)

Ground level temperature at the test location: (T)

ICAO standard temperature at MSL: (T<sub>0</sub>)

Total weight in flight: (m<sub>dec</sub>)

Corrected mass: (m<sub>corr</sub>)

C. Only parachute with controls for steering and landing flare



## Air Turquoise SA

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Switzerland

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For Air Turquoise SA

  
Randi Eriksen

ISO 9001  
BUREAU VERITAS  
Certification





**Sky Paragliders a.s.**  
Mr. Nemeč Martin  
Okružní 39  
73911 Frýdlant nad Ostravicí  
Czech Republic

# Certificate

The hereunder sample of paraglider has been tested  
in accordance with following standards:  
EN 12491:2001

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Certificate number:..... **EP 025.2010**  
Manufacturer:..... **Sky Paragliders**  
Model and size:..... **Sky Spare Light L**  
Maximum weight in flight:..... **105 kg**  
Weight of the Emergency Parachute:..... **1550 gram**

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Best Regards,

  
Alain Zoller

  
Randi Eriksen





Conformity tests according to EN 12491:2001  
Conformity number **EP 025.2010**

MANUFACTURER \_\_\_\_\_ Sky Paragliders  
MODEL \_\_\_\_\_ Sky Spare Light L  
YEAR AND MONTH OF MANUFACTURE .....

MAXI LOAD WEIGHT IN FLIGHT \_\_\_\_\_ 105 kg  
FLAT AERA \_\_\_\_\_ 26.2 m<sup>2</sup>  
WEIGHT OF THE MODEL \_\_\_\_\_ 1550gr  
TOTAL LENGHT (end of the riser to canopy top uninflated) \_\_\_\_\_ 4550 cm

Warning: not suitable for use at speeds in excess  
of 32 m/s (115 km/h)  
Before use referto the user's manual.

Serial number: .....  
Conformity tests according to EN 12491:2001 standards carried out by:

[para-test.com](http://para-test.com)



paragliding by air turquoise

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## Flight and Load test report - EN 12491:2001

**Manufacturer** Sky Paragliders a.s.  
**Address** Okružní 39  
 73911 Frýdlant nad Ostravicí  
 Czech Republic

**Certification number:** EP 025.2010  
**Type/model:** Sky Spare Light L  
**Total weight in flight:** 105 kg

Description of tests	place:	date:	result:
<b>1. Deployment system strength test</b> A load of 700 N between each components	Villeneuve	17/02/2009	OK
<b>2. Speed of opening test - ref. A (2 times)</b> Time from the instant of free drop until a load of 200 N is sustained Opening time Opening time	Villeneuve Villeneuve	02/01/2008 07/02/2008	< 5 seconds < 5 seconds
<b>3. Descent rate and stability test - ref. A and B (2 times)</b> The paraglider is released as the parachute begins to open, minimum 100 m descent. Stability 1 Sink rate 1 Stability 2 Sink rate 2	Villeneuve Villeneuve Villeneuve Villeneuve	02/01/2008 02/01/2008 07/02/2008 07/02/2008	Stable 5.28 m/s Stable 5.36 m/s
<b>4. Strength test 40 m/s opening shock (2 times)</b> The drop test device is accelerated to a straight line velocity of 40 m/s and the parachute deployment handle activated using a static line attached to a drogue chute. Speed of opening is less than 5 seconds Test 1 Test 2	France France	30/12/2006 30/12/2006	OK, done by Aerotests OK, done by Aerotests
<b>5. Interaction and stability test (piloted) - ref. C</b> a the emergency parachute is deployed from a paraglider in normal straight flight. b the pilot shall take no action while the behaviour of the parachute and paraglider are observed 200 metres. c the pilot take action while the behaviour of the parachute and paraglider are observed 200 metres.			not available  not available  not available

The model described is in conformity with the flight and load tests carried out by Air Turquoise SA.



For Air Turquoise SA

  
 Randi Eriksen

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homepage: www.para-test.com



## Weather data, ref. 3 and B

Date / place	hPa	wind	temp	humidity
02/01/2008 Villeneuve	970.1	0	2.2°	79.9%
	Corrected mass: <b>105.2 kg</b>			
25/01/2008 Villeneuve	989.3	0	4.4°	82.2%
	Corrected mass: <b>106.43 kg</b>			

## Reference

A. At horizontal airspeed 8 m/s and vertical speed 1.5 m/s

B. Formula to be used for correcting the test mass of differences from ICAO standard atmosphere

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

Ground level atmospheric pressure at the test location: (p)

ICAO standard atmospheric pressure at MSL: (p<sub>0</sub>)

Ground level temperature at the test location: (T)

ICAO standard temperature at MSL: (T<sub>0</sub>)

Total weight in flight: (m<sub>dec</sub>)

Corrected mass: (m<sub>corr</sub>)

C. Only parachute with controls for steering and landing flare



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For Air Turquoise SA

*Randi Eriksen*  
Randi Eriksen

ISO 9001  
BUREAU VERITAS  
Certification







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73911 Frýdlant nad Ostravicí  
Czech Republic

# Certificate

The hereunder sample of paraglider has been tested  
in accordance with following standards:  
EN 12491:2001

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Certificate number:..... **EP 026.2010**  
Manufacturer:..... **Sky Paragliders**  
Model and size:..... **Sky Spare Light XL**  
Maximum weight in flight:..... **130 kg**  
Weight of the Emergency Parachute:..... **1850 gram**

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Best Regards,

  
Alain Zoller

  
Randi Eriksen





Conformity tests according to EN 12491:2001  
Conformity number **EP 026.2010**

MANUFACTURER \_\_\_\_\_ Sky Paragliders  
MODEL \_\_\_\_\_ Sky Spare Light XL  
YEAR AND MONTH OF MANUFACTURE .....

MAXI LOAD WEIGHT IN FLIGHT \_\_\_\_\_ 130 kg  
FLAT AERA \_\_\_\_\_ 32.5 m<sup>2</sup>  
WEIGHT OF THE MODEL \_\_\_\_\_ 1850gr  
TOTAL LENGHT (end of the riser to canopy top uninflated) \_\_\_\_\_ 4950 cm

Warning: not suitable for use at speeds in excess of 32 m/s (115 km/h)  
Before use referto the user's manual.

Serial number: .....

Conformity tests according to EN 12491:2001 standards carried out by:

[para-test.com](http://para-test.com)



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## Flight and Load test report - EN 12491:2001

**Manufacturer** Sky Paragliders a.s.

**Address** Okružní 39  
73911 Frýdlant nad Ostravicí  
Czech Republic

**Certification number:** EP 026.2010

**Type/model:** Sky Spare Light XL

**Total weight in flight:** 130 kg

Description of tests	place:	date:	result:
<b>1. Deployment system strength test</b> A load of 700 N between each components	Villeneuve	17/02/2009	OK
<b>2. Speed of opening test - ref. A (2 times)</b> Time from the instant of free drop until a load of 200 N is sustained Opening time Opening time	Villeneuve Villeneuve	01/04/2008 24/04/2008	< 5 seconds < 5 seconds
<b>3. Descent rate and stability test - ref. A and B (2 times)</b> The paraglider is released as the parachute begins to open, minimum 100 m descent. Stability 1 Sink rate 1 Stability 2 Sink rate 2	Villeneuve Villeneuve Villeneuve Villeneuve	01/04/2008 01/04/2008 24/04/2008 24/04/2008	Stable 5.47 m/s Stable 5.47 m/s
<b>4. Strength test 40 m/s opening shock (2 times)</b> The drop test device is accelerated to a straight line velocity of 40 m/s and the parachute deployment handle activated using a static line attached to a drogue chute. Speed of opening is less than 5 seconds Test 1 Test 2	France France	30/12/2006 30/12/2006	OK, done by Aerotests OK, done by Aerotests
<b>5. Interaction and stability test (piloted) - ref. C</b> a the emergency parachute is deployed from a paraglider in normal straight flight. b the pilot shall take no action while the behaviour of the parachute and paraglider are observed 200 metres. c the pilot take action while the behaviour of the parachute and paraglider are observed 200 metres.			not available  not available  not available

The model described is in conformity with the flight and load tests carried out by Air Turquoise SA.



For Air Turquoise SA

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Randi Eriksen

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## Weather data, ref. 3 and B

Date / place	hPa	wind	temp	humidity
01/04/2008 Villeneuve	979	0	8.9	77.5%
	Corrected mass:		<b>128.32 kg</b>	
24/04/2008 Villeneuve	980	0	8.0°	82.2%
	Corrected mass:		<b>128.86 kg</b>	

## Reference

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

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

Ground level atmospheric pressure at the test location: (p)

ICAO standard atmospheric pressure at MSL: (p<sub>0</sub>)

Ground level temperature at the test location: (T)

ICAO standard temperature at MSL: (T<sub>0</sub>)

Total weight in flight: (m<sub>dec</sub>)

Corrected mass: (m<sub>corr</sub>)

C. Only parachute with controls for steering and landing flare



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