AIR TURQUOISE SA | PARA-TEST.COM

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Test laboratoru for paragliders, paraglider harnesses and paraglider reserve parachutes



EP EMERGENCY PARACHUTE

INSPECTION CERTIFICATE

EP 154.2015 Inspection certicicate number:

MANUFACTURER DATA

Windtech Paragliders Manufacturer name:

> Gabriel Cañada Representative

> > Francisco Rodriguez 7 Street:

33201 Gijon - Asturias Post code / place:

> Country: Spain

SAMPLE DATA

Size: Name: WindSOS UltraLite

*Payload [kg]: 85 Unsteerable Type:

*Total weight in flight minus Weight [kg]: weight of paraglider

Date of reception:

05.01.2015

Volume packed [cm3]: 4000 Use: Single-seater

Serial number flight: 44633

05.01,2015 Date of reception: Serial number load: 442021214

PLACE DATES **RESULTS** TEST REPORT SUMMARY Villeneuve 23.02.2015 **POSITIVE** EP1 Deployment system strength test 04.02.2015 Villeneuve Speed of opening, descent rate and stability test **POSITIVE** EP2 06.02.2015 Illarsaz **POSITIVE** Strength test / opening shock EP3 n/a n/a N/A Connecting strap (riser) EP4 n/a Interaction and stability test n/a N/A EP5

ISSUE DATA

Date of issue: 16.08.2016

Place of declaration: Villeneuve

Managing Director: Alain Zoller

Signature:

This signature aprouve the validity of the test reports EP 1 to EP 5 (Only if test report are applicable).

Air Turquoise SA, having thoroughly assessed the sample mentioned hereunder, declare it was found conform with all requirements defined by the following directives:

EN 12491:2001

Present declaration's scope only extends to the conformity of a given sample, on a given date and in a given place – as mentioned here above

This inspection report contain the following test and is complet with the test report number EP1 to EP4, EP5 for stearable model only

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Deployment system strength test

TEST REPORT EP 1

EP PARAGLIDERS RESCUE SYSTEMS

Inspection certicicate ref. number: EP_154.2015

MANUFACTURER DATA

Manufacturer name: Windtech Paragliders

Representative Gabriel Cañada

Street: Francisco Rodriguez 7

Post code / place: 33201 Gijon - Asturias

Country: Spain

SAMPLE DATA

Name: WindSOS UltraLite

Size: S

Payload [kg]: 85

Serial number: 442021214

Date of reception: 05.01.2015

ISSUE DATA

Place of test: Villeneuve

Date of test: 23.02.2015

Inspector: Alain Zoller

Results: POSITIVE

Directive: EN 12491 | 2001 chapter 5.3.2

The deployment system (the connection between handgrip and inner container) is loaded at min 700 [N] over 10 secondes. The deployment system is loaded until breaking. Each componnent is tested.

ATMOSPHERE AGL

[C°] 21.1

RH [%] 1011.9

[hPa] 31

RESULTS

Minimum strength required during min 10s: 700 [N]

Strength of 700 N duration each components no1 [s]: 18.70

Strength of 700 N duration each components no2 [s]: n/a

Strength of 700 N duration each components no3 [s]: n/a

Uncertainty K=2 [N]: 17.0

Calculed time value for minimum strength [s]: 18.70

Max strength components:

Max strength components no1 [N]: 1393.0

Max strength components no2 [N]: n/a

Max strength components no3 [N]: n/a

Uncertainty K=2 [N]: 17.0

Calculed max strength value [N]: 1393.0

Calculed 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%.

Deployment system strength test

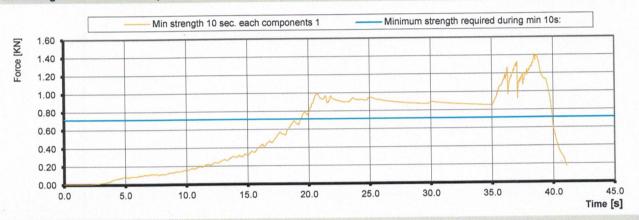
TEST REPORT EP 1

EP PARAGLIDERS RESCUE SYSTEMS

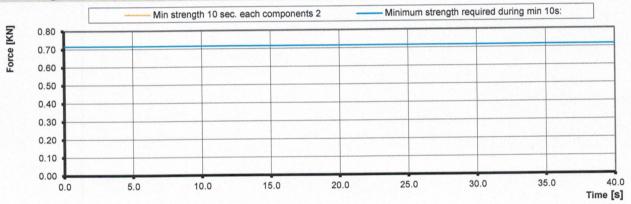
Inspection certicicate ref. number: EP_154.2015

GRAPHIQUE RESULTS

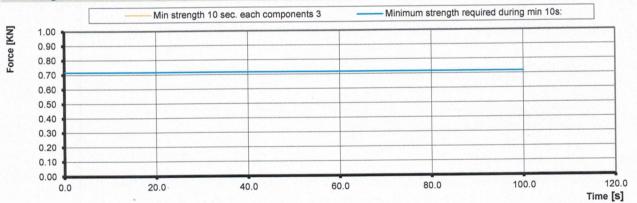
Min strength 10 sec. each components 1



Min strength 10 sec. each components 2



Min strength 10 sec. each components 3



Involved test	Item	Validity	Manufacturer	Type nr.	S/N
Deployment system strength test	Load Cell (axial)	11.06.2016	Burster / MTS	8431-10000	1185483
Deployment system strength test	Winch	15.01.2018	Arwin	300/600	n/a
Weather	Geos n° 11 Skywa	atc 08.05.2017	JDC elec.	Geos n° 11	22

Speed of opening and descent rate and stability test

TEST REPORT EP 2

EP PARAGLIDERS RESCUE SYSTEMS

Inspection certicicate ref. number: EP_154.2015

MANUFACTURER DATA

Manufacturer name: Windtech Paragliders

Representative Gabriel Cañada

Street: Francisco Rodriguez 7

Post code / place: 33201 Gijon - Asturias

Country: Spain

SAMPLE DATA

Name: WindSOS UltraLite

Size: S

Payload [kg]: 85

Serial number: 4463:

Date of reception: 05.01.2015

ISSUE DATA Test no1 Test no2
Place of tests: Villeneuve Villeneuve

Date of tests: 05.01.2015 04.02.2015

Inspectors: Claude Thurnheer Claude Thurnheer

Results: POSITIVE

Directive: EN 12491:2001 chapter 5.3.3

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.

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.

ATMOSPHERE AGL	Test no1	Test no2
[C _o]	3	3
RH [%]	78	80
[hPa]	976.4	960.2
Wind [m/s]	0.2	0.1

RESULTS EN

Time of opening test: POSITIVE

Requirement time from the instant of free drop until a load

of 200 [N] is sustained [s]:

Calculed sink rate test: POSITIVE

Maximum sink rate test requirements [m/s]: 5.50

Stability test: POSITIVE

Behavior during descent stability test: 1 Stable

Calculed 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%.

The tests do not include any compatibility tests with alternative inner containers.

The validation of this test report is given by the signature of the test manager on inspection certificate 71.5.1

Speed of opening and descent rate and stability test

TEST REPORT EP 2

PARAGLIDERS RESCUE SYSTEMS

Inspection certicicate ref. number: EP_154.2015

WINK LINKS 1



WINK LINKS 2



Involved test	Item	Validity	Manufacturer	Type nr.	S/N
Deployment system strength test	Weak links	2030	Tost	n/a	n/a
Descent rate and stability test	Line 30 meters	2020	Air Turquoise	n/a	n/a
Weather	Geos n° 11 Skywatch	08.05.2017	JDC elec.	Geos nº 11	22

Strength test / opening shock

TEST REPORT EP 3

EP PARAGLIDERS RESCUE SYSTEMS

Inspection certicicate ref. number: EP_154.2015

MANUFACTURER DATA

Manufacturer name: Windtech Paragliders

Representative Gabriel Cañada

Street: Francisco Rodriguez 7

Post code / place: 33201 Gijon - Asturias

Country: Spain

SAMPLE DATA

Name: WindSOS UltraLite

Size: S

Payload [kg]: 85

Serial number: 442021214

Date of reception: 05.01.2015

ISSUE DATA Test no1 Test no2

Results: POSITIVE

Directive: EN 12491:2001 chapter 5.3.5.1

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.

ATMOSPHERE AGL	Test no1	Test no2	
[C°]	1	7	
RH [%]	78	60	
[hPa]	970.8	970	
Wind [m/s]	0.1	0.2	

TEST RESULTS

Speed of opening in max 5 secondes

Speed of opening test 1 POSITIVE
Speed of opening test 2 POSITIVE

Sample statut after shock

Strength test 40 m/s opening shock 1 POSITIVE

Strength test 40 m/s opening shock 2 POSITIVE

Aircraft speed Uncertainty K=2 [m/s] 1.7

Calculed 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%.

Involved test	Item	Validity	Manufacturer	Type nr.	S/N
Strength test 40 m/s opening shock	Weight	2020	Air Turquoise	n/a	n/a
Weather	Geos n° 11	08.05.2017	JDC elec.	Geos n° 11	22
Strength test 40 m/s opening shock	Weak link	2020	Tost	n/a	n/a