

## Rescue Deployment Test

Inspection certificate number: **MISC\_134.2019**

### Manufacturer data:

Manufacturer name: **Paragliding.tech**  
 Representative: **Jean Philippe Gallat**  
 Street: **67, rue Clémenceau**  
 Post code place: **69110 Sainte Foy lès Lyon**  
 Country: **France**

### Sample data

Name of product: **Extracteur Secours**  
 Serial number: **n/a**  
 Date of reception: **14.08.2019**

### Test Data

### Atmosphere AGL

Place of test: **Villeneuve** **23.5 [C°]**  
 Date of test: **14.08.2019** **50 RH [%]**  
 Inspector: **Alain Zoller** **973.5 [hPa]**

### Results <sup>(2)</sup>

The maximum strength **64.4 [N]**  
 Includes the uncertainty  $K=2$  [N] <sup>(3)</sup>: **0.6 [N]**  
 Result **POSITIVE**

Place of declaration: **Villeneuve**  
 Date of issue: **20.09.2019**  
 Managing director: **Alain Zoller**  
 Signature:



Manufacture	Instrument	Type no	S/N	Validity Calibration
HBM	Load Sensor GE01	1-S9M/50KN-1	31314643	04.09.2023
Burster	Sensor Burster	8431-10000	1185483	04.09.2023
JDC elec	Geos n°11 Skywatch	Geos n°11	22	08.05.2020

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

Airworthiness Requirements **LTF NfL II 91/09 chapter 6.1.5**

Calculated value in tests reports 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%.

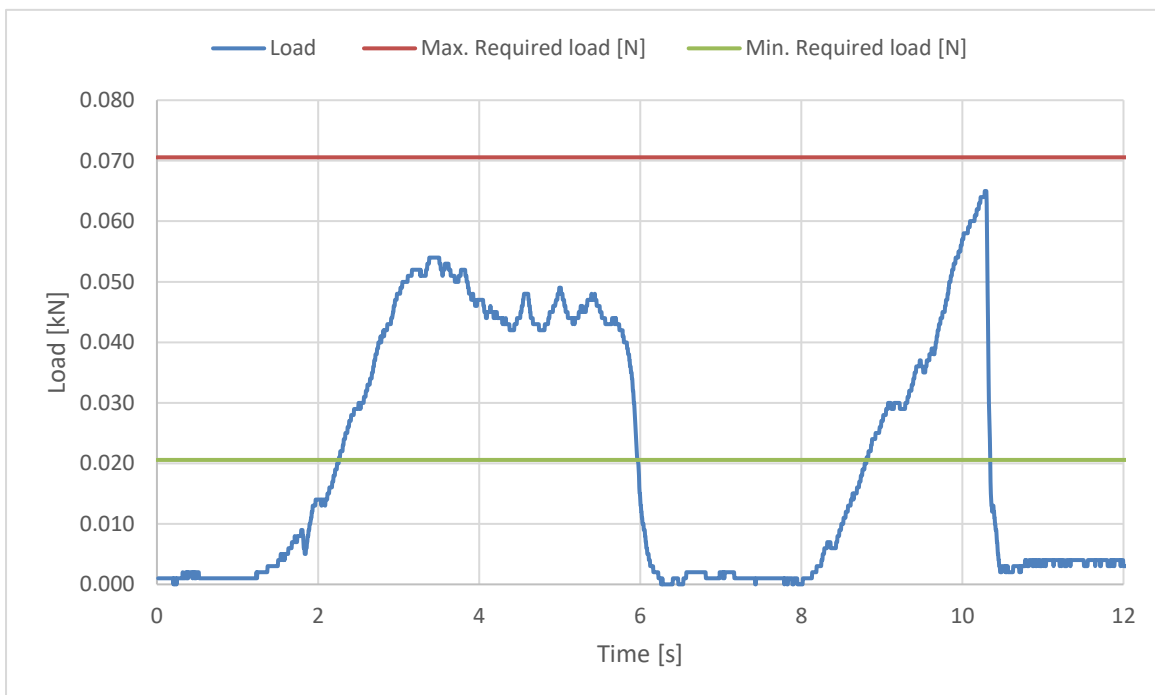
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**Rescue Deployment Test**

**Test ID RRDT**

Standard	<b>LTF NfL II 91/09</b>
Reference in standard	<b>6.1.5</b>
Test setup	<b>Default flying position</b>
Attachment points	<b>Sensor connect to handle, and pull in opening direction</b>
	The test is to simulate the load required to open the emergency parachute(1st action).
Min. Required load [N]	<b>20</b>
Max. Required load [N]	<b>70</b>
<b>Result</b>	
Load for first action [N]	<b>64.44</b>
Test results	<b>POSITIVE</b>



The validation of this test report is given by the signature of the test manager on the Inspection Certificate no 94.20

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### Conception



The parachute ejector is made of an air bag (picture 1) and a cartridge of CO2 (picture 2) hit by a sealed pressure wave device without any impact on the fabric. The system weight is about 200g, whose 180 g for a cartridge of 50 g of CO2. More powerful cartridges can be used (Tandem, extreme test or accro). A 500 cc cartridge insure a sufficient ejection while limiting, in case of an accidental ejection, a body impact under 80 joules in accordance with the european directive in the process of approbation.

Cartridges are congruent to the norme 97/23/CE et le percuteur est conforme à la norme 2007/023/CE (Technology developed by Helite SARL) in terms of reliability, 50 ejections in flight conditions or on ziplines showed no failure.



Pic 1 Airbag



PIC 2: Cartridge of CO2



Pic 3: Mounted system