

# Harness inspection certificate

Inspection certificate number: PH\_209.2017

Impact pad number: MISC\_053.2017

## Manufacturer data

Manufacturer name: **Supair Sàrl**  
 Representative: **Laurent Chiabaut**  
 Street: **34, rue Adrastée**  
 Post code / place: **74650 Chavanod**  
 Country: **France**

## Sample data:

### Harness

### Impact pad

Name:	<b>Evasion Bump</b>	Name Impact pad: <sup>(1)</sup>	<b>Bump 17 XC</b>
Type:	<b>ABS</b>	Impact pad integrated: <sup>(1)</sup>	<b>No</b>
Size:	<b>M</b>	Impact pad type:	<b>Foam</b>
Weight of Sample [kg]:	<b>3.3</b>	Weight of Sample [kg]: <sup>(1)</sup>	<b>0.708</b>
Serial number:	<b>2167-10-05</b>	Serial number: <sup>(1)</sup>	<b>BUMPERXC15022018</b>
Clip-in weight [kg]:	<b>120</b>	Date of reception:	<b>28.02.2018</b>
Integrated container for rescue system:	<b>No</b>		
Volume container [cm <sup>3</sup> ]:			<b>10200 max</b>
			<b>7500 min</b>
Date of reception:	<b>01.12.2014</b>		


## Test report summary

### Structual test

### Impact pad test

Result	<b>POSITIVE</b>	<b>POSITIVE</b>
Place	<b>Villeneuve</b>	<b>Villeneuve</b>
Date	<b>01.12.2014</b>	<b>28.02.2018</b>

## Issue data

Place of declaration: **Villeneuve**  
 Date of issue: **27.03.2018**  
 Managing Director: **Alain Zoller**  
 Signature: 

revision 1 : 28.08.2018

This signature approve the validity of the test reports if available; no. 94.21 (test id R0,R2,R6,R8,R9,R10,RRDT,RRST) and no. 94.22 (test id: P1,P2,PR1,PR2)  
 Air Turquoise SA, having thoroughly assessed the sample mentioned above, declare it was found conform with all requirements defined by the following norms:  
 European Standard EN1651 :1999, and EN12491:2015 chapter 5.3.2 - Airworthiness Requirements LTF NFL II 91/09 chapter 4.2.1, 5, 6.1.5 and 6.1.8

<sup>(1)</sup> If Impact pad is NOT integrated in the harness, it will have independently Inspection number, and serial number. Definition of integrated impact pad is impact pad which can not be dismantled from the harness, e.g. airbag.

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 certificate contain the following test and is complet with the test, if available, report: 94.21 and 94.22

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Test laboratory for paragliders, paraglider harnesses  
and paraglider reserve parachutes



## Paragliding Harness

Inspection number : **PH\_209.2017**  
Manufacturer : **Supair Sàrl**  
Model and size : **Evasion Bump M**  
Maximum pilot weight [kg] : **120**  
Integrated container for rescue system: **No**  
If Yes. Volume of the container [cm<sup>3</sup>] : **7500 min 10200 max**  
Serial number: \_\_\_\_\_  
Production date (year / month) : \_\_\_\_\_

## Harness protector (impact pad)

Impact pad type: **Foam**  
Impact pad integrated: **No**  
Impact pad number: **MISC\_053.2017**  
If not integrated : Manufacturer ..... Serial number: .....  
Production date (year / month) : \_\_\_\_\_

**Warning : Read the operating manual before using this equipment!**

A sample has been tested and certifies its conformity with the following standard: **EN1651:1999, EN12491:2015 and LTF NfL II 91/09 chapter 4 and 6**. This model corresponds with the tested sample and its airworthiness.

RE | rev 01 | 09.03.2018 | ISO 94.20

# Harness Structural test Report

Inspection certificate number: **PH\_209.2017**

## Manufacturer data:

Manufacturer name: **Supair Sàrl**  
 Representative: **Laurent Chiabaut**  
 Street: **34, rue Adrastée**  
 Post code place: **74650 Chavanod**  
 Country: **France**

## Sample data:

Name: **Evasion Bump**  
 Type: **ABS**  
 Size: **M**  
 Serial number: **2167-10-05**  
 Impact pad type: <sup>(1)</sup> **Foam**  
 Clip-in weight [kg]: **120**

Date of test: **01.12.2014**

## Atmosphere AGL:

[C°]	<b>21.5</b>
RH [%]	<b>45</b>
[hPa]	<b>1001.4</b>

## Summary of Structural test

Test id	- EN 1651	Setup	Req. Load [g]	Req. Load [N]	Min. duration [s]	Result
R0	✓ 5.3.2.1	Default flying position	6	7200	10	POSITIVE
R2	✓ 5.3.2.2	Default flying position	15	18000	5	POSITIVE
R4	✓ 5.3.2.7	Flying position before landing	15	18000	5	POSITIVE
R6	✓ 5.3.2.4	Rescue attachments	15	18000	5	POSITIVE
R8	✓ 5.3.2.3	Asymmetric, one riser	6	7200	10	POSITIVE
R9	5.3.2.5	Towing	5	6000	10	n/a
R10	✓ 5.3.2.6	Asymmetric, negative	4.5	5400	10	POSITIVE

## Rescue deployment test

Test id	- NfL II 91/09	Setup	Min load [N]	Max. load [N]	Measured [N]	Result
RRDT	✓ 6.1.5	Default flying position	20	70	47.71	POSITIVE

## Rescue Deployment Handle strength test

Test id	- EN 12491	Setup	Req. Load [N]	Min. duration [s]	Breaking strength [N]	Result
RRST	✓ 5.3.2	Two end points of handle	700	10	1610.27	POSITIVE

Manufacture	Instrument	Type no	S/N	Validity Calibration
HBM	Load Sensor GE01	1-S9M/50KN-1	31314643	14.10.2019
Burster	Sensor Burster	8431-10000	1185483	01.06.2020
JDC elec	Geos n°11 Skywatch	Geos n°11	22	08.05.2019

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

<sup>(1)</sup> If Impact pad available, see test report no. 94.22 and inspection certificate no. 94.20

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%.

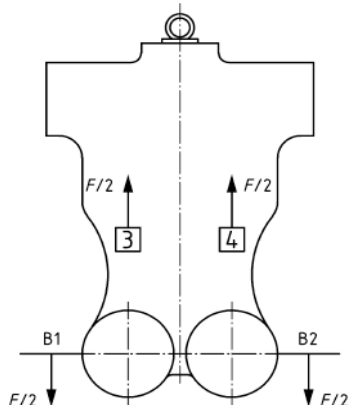
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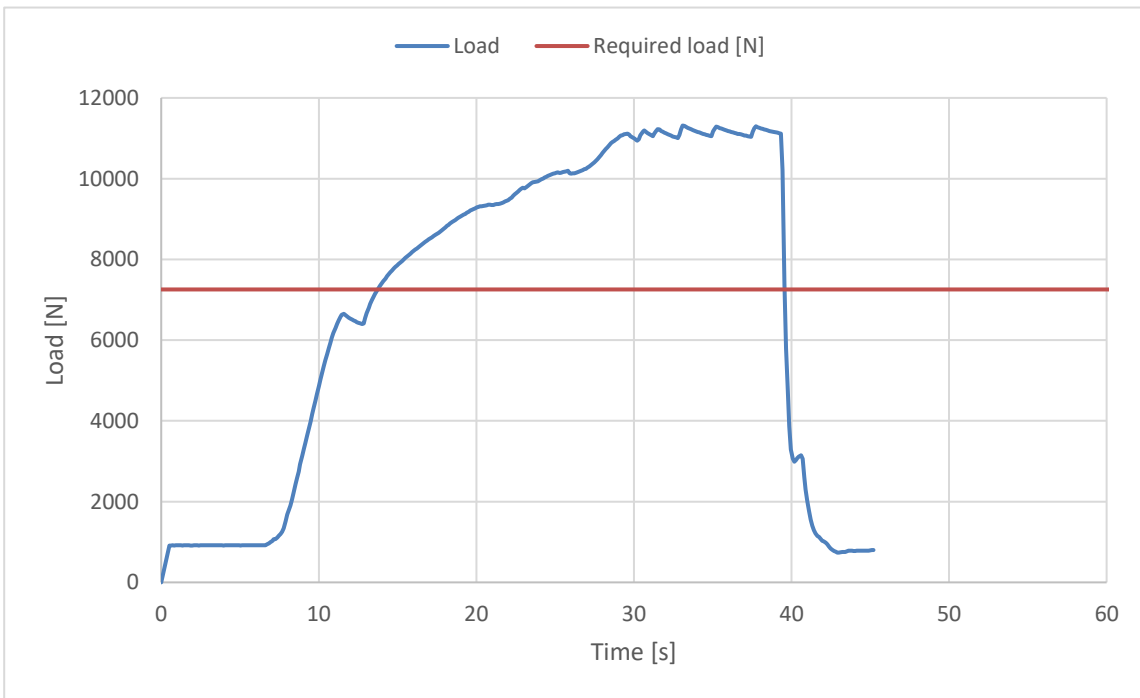
Inspection certificate number: **PH\_209.2017**

model: **Evasion Bump M**

**Harness Structural test**

**Test ID R0**

Standard	<b>EN 1651:1999</b>	
Reference in standard	<b>5.3.2.1</b>	
Test setup	<b>Default flying position</b>	
Attachment points	<b>Both main riser attachment (3,4)</b>	
Anchor points	<b>Dummy (B1, B2)</b>	
Required load [g]	<b>6</b>	
Required load [N]	<b>7200</b>	
Minimum test duration [s]	<b>10</b>	
<b>Result</b>		
Test duration [s]	<b>24.5</b>	
Any signs of structural failure	<b>No</b>	
Test results	<b>POSITIVE</b>	



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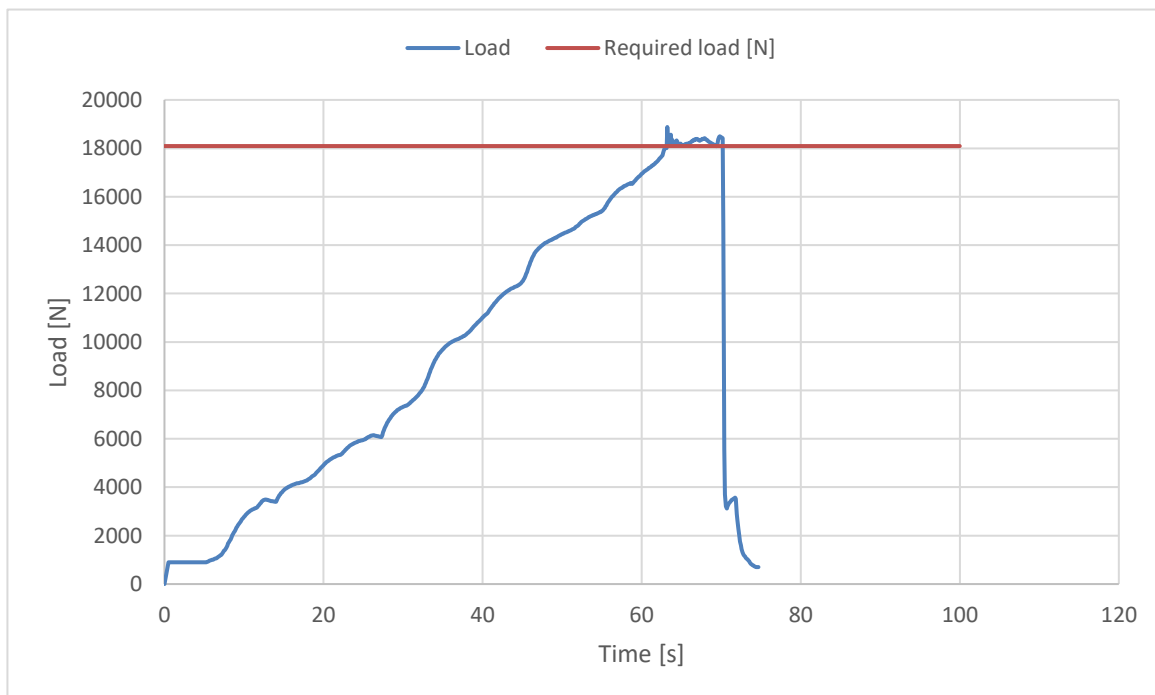
Inspection certificate number: **PH\_209.2017**

model: **Evasion Bump M**

**Harness Structural test**

**Test ID R2**

Standard	<b>EN 1651:1999</b>	
Reference in standard	<b>5.3.2.2</b>	
Test setup	<b>Default flying position</b>	
Attachment points	<b>Both main riser attachment (3,4)</b>	
Anchor points	<b>Dummy (B1, B2)</b>	
Required load [g]	<b>15</b>	
Required load [N]	<b>18000</b>	
Minimum test duration [s]	<b>5</b>	
<b>Result</b>		
Test duration [s]	<b>5.8</b>	
Any signs of structural failure	<b>No</b>	
Test results	<b>POSITIVE</b>	



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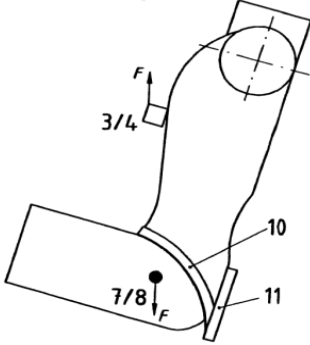
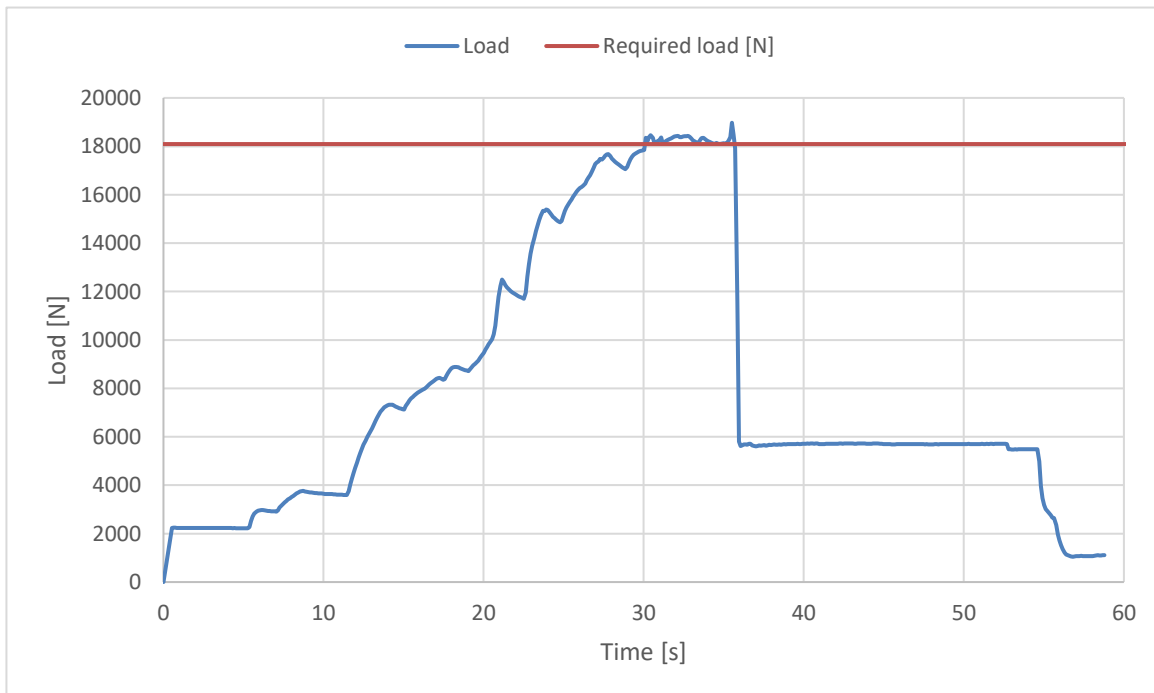
Inspection certificate number: **PH\_209.2017**

model: **Evasion Bump M**

**Harness Structural test**

**Test ID R4**

Standard	<b>EN 1651:1999</b>
Reference in standard	<b>5.3.2.7</b>
Test setup	<b>Flying position before landing</b>
Attachment points	<b>Both main riser attachment (3,4)</b>
Anchor points	<b>Dummy (7,8)</b>
Required load [g]	<b>15</b>
Required load [N]	<b>18000</b>
Minimum test duration [s]	<b>5</b>
<b>Result</b>	
Test duration [s]	<b>5.3</b>
Any signs of structural failure	<b>No</b>
Test results	<b>POSITIVE</b>

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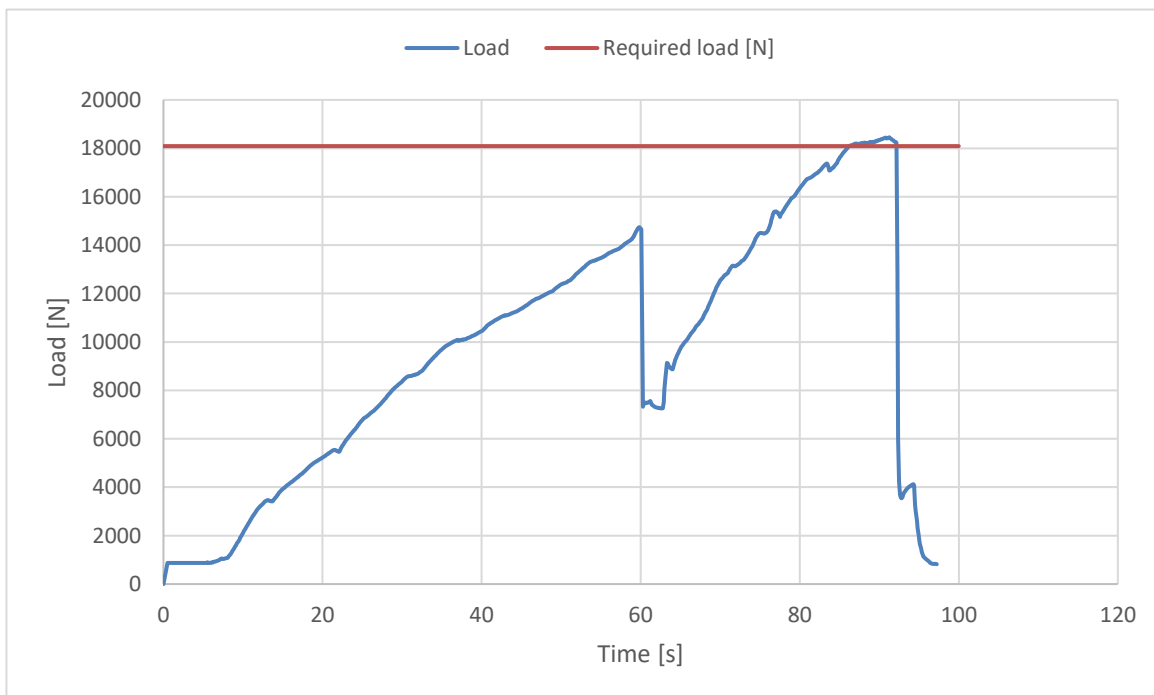
Inspection certificate number: **PH\_209.2017**

model: **Evasion Bump M**

**Harness Structural test**

**Test ID R6**

Standard	<b>EN 1651:1999</b>	
Reference in standard	<b>5.3.2.4</b>	
Test setup	<b>Rescue attachments</b>	
Attachment points	<b>Rescue riser attachment (1,2)</b>	
Anchor points	<b>Dummy (B1,B2)</b>	
Required load [g]	<b>15</b>	
Required load [N]	<b>18000</b>	
Minimum test duration [s]	<b>5</b>	
<b>Result</b>		
Test duration [s]	<b>5.6</b>	
Any signs of structural failure	<b>No</b>	
Test results	<b>POSITIVE</b>	



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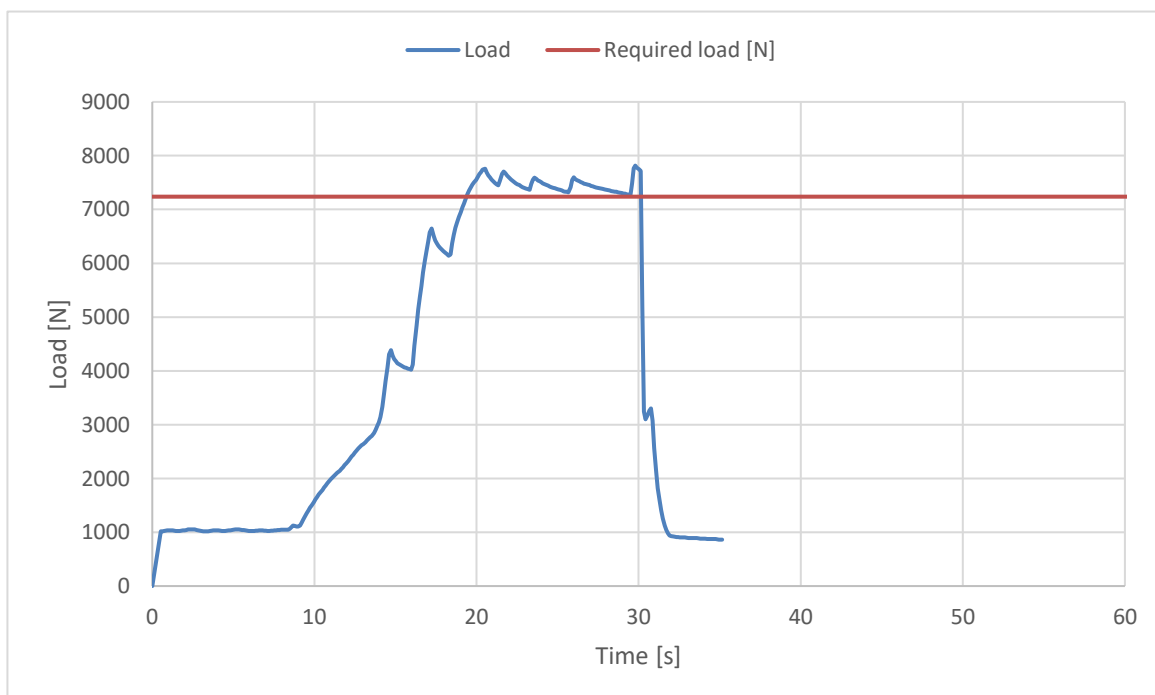
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model: **Evasion Bump M**

**Harness Structural test**

**Test ID R8**

Standard	<b>EN 1651:1999</b>	
Reference in standard	<b>5.3.2.3</b>	
Test setup	<b>Asymmetric, one riser</b>	
Attachment points	<b>One main riser attachment (3)</b>	
Anchor points	<b>Dummy (B1,B2)</b>	
Required load [g]	<b>6</b>	
Required load [N]	<b>7200</b>	
Minimum test duration [s]	<b>10</b>	
<b>Result</b>		
Test duration [s]	<b>10.2</b>	
Any signs of structural failure	<b>No</b>	
Test results	<b>POSITIVE</b>	



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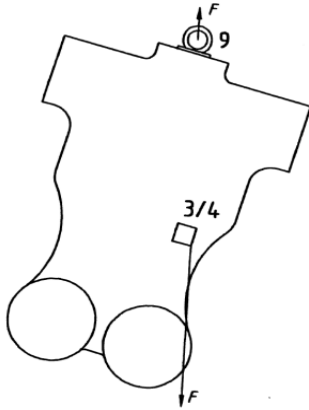


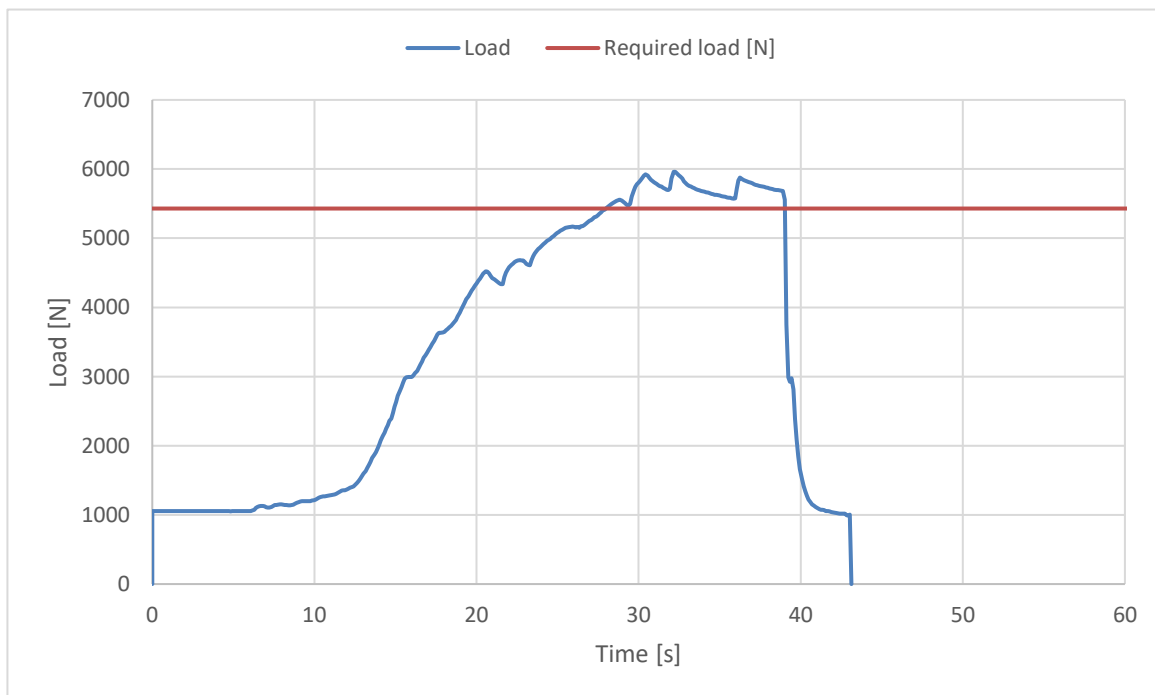
Inspection certificate number: **PH\_209.2017**

model: **Evasion Bump M**

**Harness Structural test**

**Test ID R10**

Standard	<b>EN 1651:1999</b>	
Reference in standard	<b>5.3.2.6</b>	
Test setup	<b>Asymmetric, negative</b>	
Attachment points	<b>One main riser attachment (3 or 4) downwards</b>	
Anchor points	<b>Dummy (9)</b>	
Required load [g]	<b>4.5</b>	
Required load [N]	<b>5400</b>	
Minimum test duration [s]	<b>10</b>	
<b>Result</b>		
Test duration [s]	<b>10.5</b>	
Any signs of structural failure	<b>No</b>	
Test results	<b>POSITIVE</b>	



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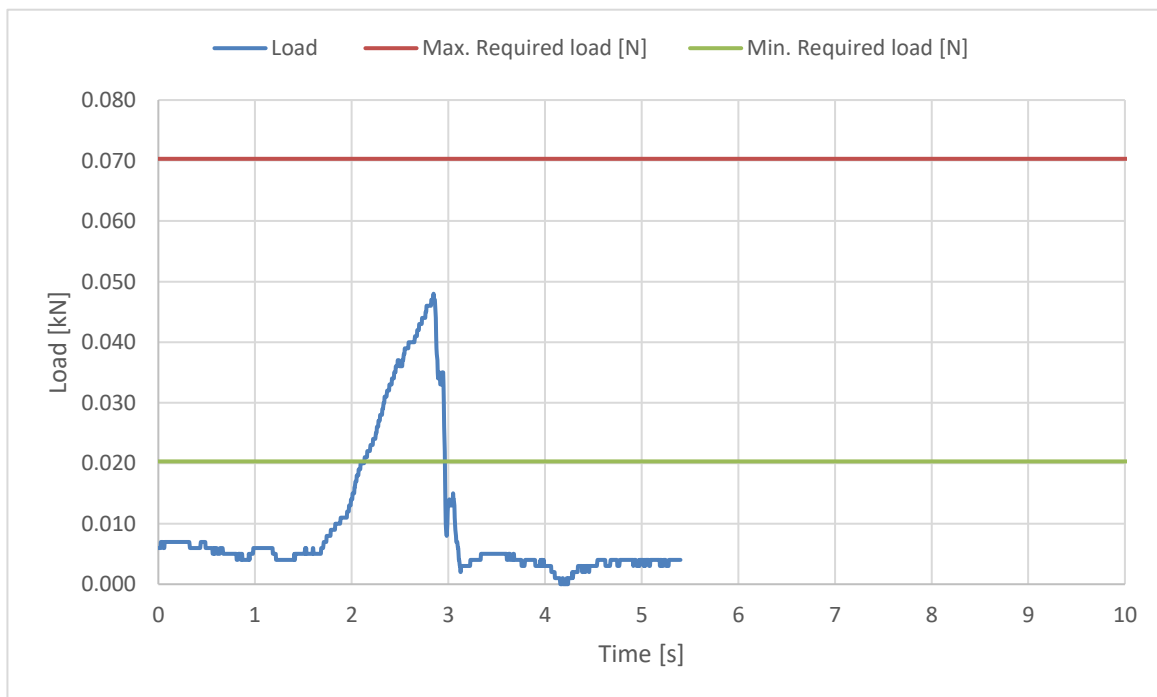
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model: **Evasion Bump M**

**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>47.71</b>
Test results	<b>POSITIVE</b>



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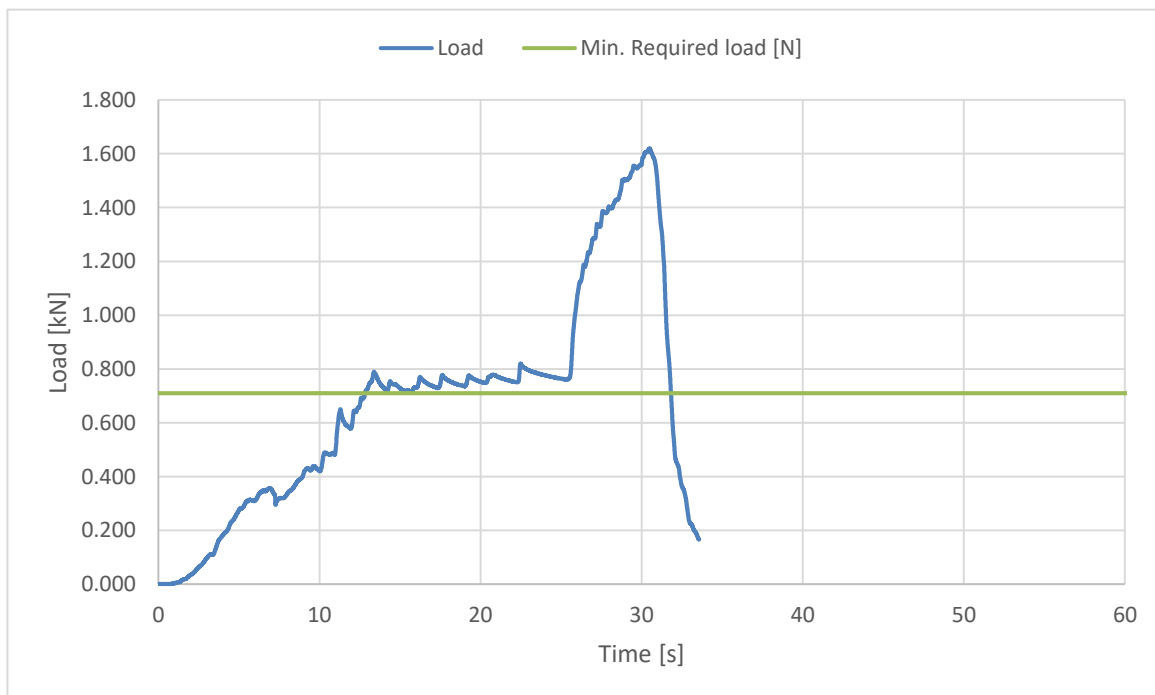
Inspection certificate number: **PH\_209.2017**

model: **Evasion Bump M**

**Rescue Deployment Handle strength test**

**Test ID RRST**

Standard	<b>EN12491:2015</b>
Reference in standard	<b>5.3.2</b>
Test setup	<b>Two end points of handle</b>
Attachment points	<b>Sensor connect to end of handle, pull on the other side</b>
	The handle must support min 700 N for 10 s, after measure breaking strength
Min. Required load [N]	<b>700</b>
Minimum test duration [s]	<b>10</b>
<b>Result</b>	
Test duration [s]:	<b>18.9</b>
Breaking strength [N]	<b>1610.27</b>
Test results	<b>POSITIVE</b>



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