



## Harness inspection certificate - LTF

Inspection certificate number: PH\_272.2019

Impact pad number: PH\_272.2019

### Manufacturer data

Manufacturer name: **Sky Paragliders a.s.**  
 Representative: **Michal Sotek**  
 Street: **Okruzni 39**  
 Post code / place: **73911 Frydlant n.O.**  
 Country: **Czech Republic**

### Sample data:

#### Harness

#### Impact pad

Name:	<b>Skylighter 4</b>	Name Impact pad: <sup>(1)</sup>	<b>n/a</b>
Type:	<b>ABS</b>	Impact pad integrated: <sup>(1)</sup>	<b>Yes</b>
Size:	<b>L</b>	Impact pad type:	<b>Foam</b>
Weight of Sample [kg]:	<b>3.84</b>	Weight of Sample [kg]: <sup>(1)</sup>	<b>n/a</b>
Serial number:	<b>2454-13-5834</b>	Serial number: <sup>(1)</sup>	<b>n/a</b>
Clip-in weight [kg]:	<b>120</b>		
Integrated container for rescue system:	<b>Yes</b>	Date of reception:	<b>13.03.2019</b>
Volume container [cm <sup>3</sup> ]:			
			<b>7600 max</b>
			<b>3200 min</b>
Date of reception:	<b>13.03.2019</b>		

### Test report summary

#### Structural test

#### Impact pad test

Result	<b>POSITIVE</b>	<b>POSITIVE</b>
Place	<b>Villeneuve</b>	<b>Villeneuve</b>
Date	<b>13.05.2019</b>	<b>13.05.2019</b>

### Issue data

Place of declaration: **Villeneuve**  
 Date of issue: **05.03.2020**  
 Managing Director: **Alain Zoller**  
 Signature:



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** - Airworthiness Requirements **LTF NFL II 91/09**

<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

## Harness Impact Pad Report

Inspection certificate number: **PH\_272.2019**

### Manufacturer data:

Manufacturer name: **Advance Thun AG**  
 Representative: **Rolf Zeltner**  
 Street: **Uttigenstrasse 87**  
 Post code place: **3600 Thun**  
 Country: **Switzerland**

Harness model: **Skylighter 4 L**

### Sample data:

Name impact pad: **n/a**  
 Impact pad integrated: **Yes**  
 Impact pad type: **Foam**  
 Serial number: **n/a**  
 Weight of sample [kg]: **n/a**  
 Date of test: **13.05.2019**

### Atmosphere AGL:

[C°]	<b>20.3</b>
RH [%]	<b>40</b>
[hPa]	<b>980.6</b>

### Summary of Impact pad test <sup>(1)</sup>

Test id	–	Test configuration <sup>(2)</sup>	Max Peak of Impact [g] <sup>(3)</sup>	Duration at 38 [g] in [ms] <sup>(4)</sup>	Duration at 20 [g] in [ms] <sup>(5)</sup>	Diff. of test 1 and 2 [%] <sup>(6)</sup>	Result
P	V	Test sample attached to dummy in flying position, without emergency parachute	<b>37.69</b>	<b>0.00</b>	<b>19.17</b>	<b>6.35</b>	<b>POSITIVE</b>
PR	V	Test sample attached to dummy in flying position, Include emergency parachute	<b>40.98</b>	<b>3.33</b>	<b>17.50</b>	<b>2.39</b>	<b>POSITIVE</b>

Manufacture	Instrument	Type no	S/N	Validity Calibration
Burster/MTS	Accelerometer 100 g	89010-100	1263567	23.01.2024
JDC elec	Geos n°11 Skywatch	Geos n°11	22	08.05.2020

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> 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%.

<sup>(2)</sup> The dummy is lifted minimum up to 1.65 m, and impact pad is mounted on. Where the impact occurs, measure distance from bottom of impact pad to ground.

<sup>(3)</sup> Maximum peak of impact should be less or equal to 50 [g], <sup>(4)</sup> If any, the maximum duration in at 38 [g] should be less or equal to 7 [ms], <sup>(5)</sup> If any, the maximum duration in at 20 [g] should be less or equal to 25 [ms]. <sup>(6)</sup> The test should be done twice, and the 2nd test the maximum peak should not differ more than 20% from the first test, maximum peak.

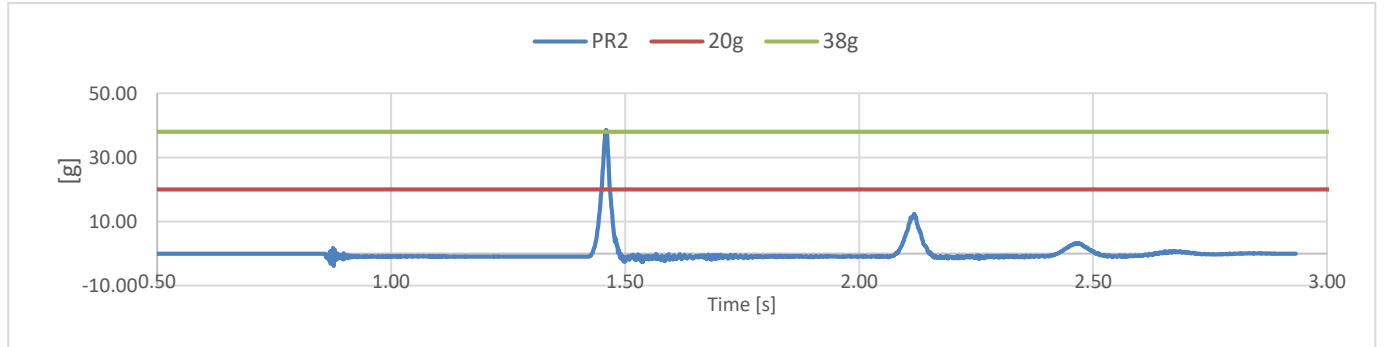
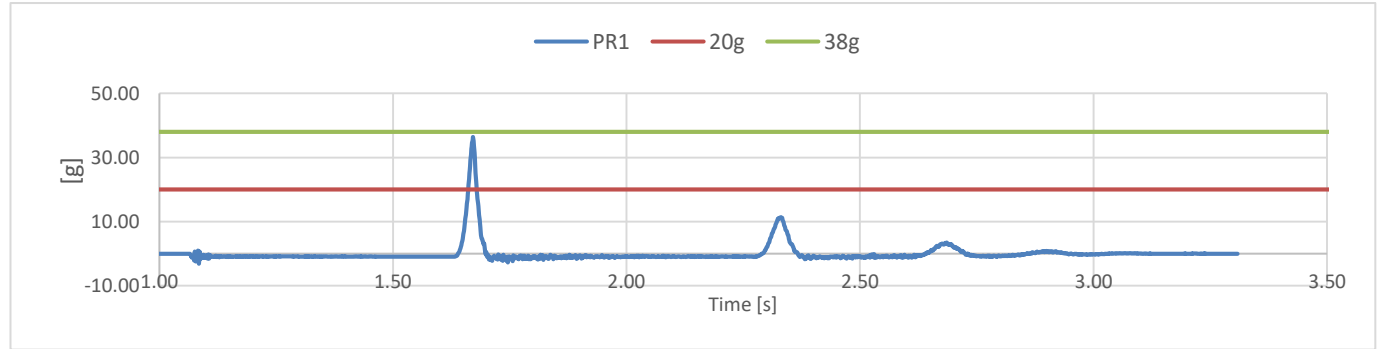
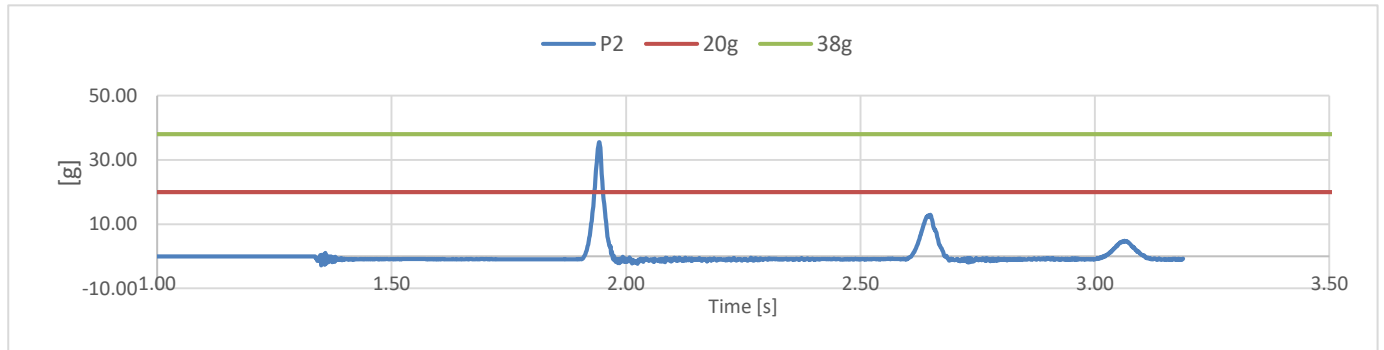
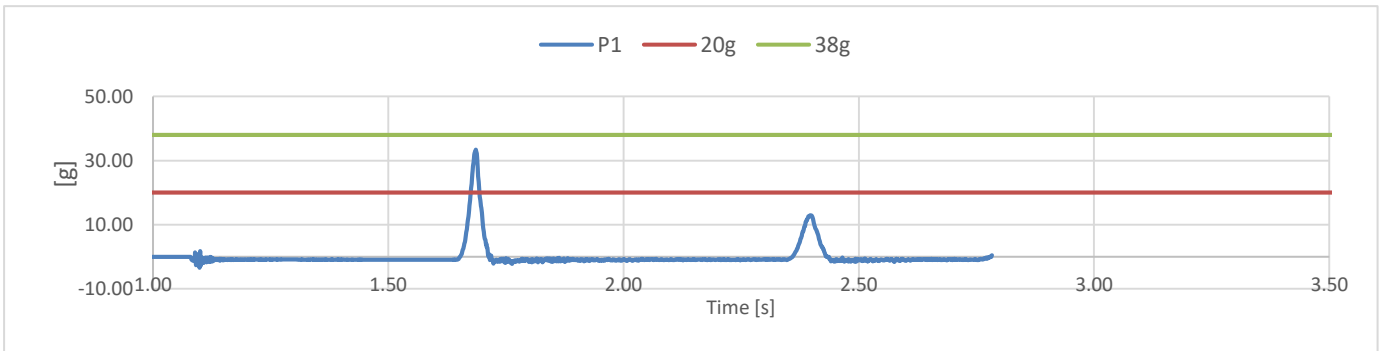
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Inspection certificate number: **PH\_272.2019**

Name impact pad: **n/a**

**Test results of Impact pad test**

	without emergency parachute		include emergency parachute	
	P1	P2	PR1	PR2
Maximum Peak of impact [g]	<b>35.44</b>	<b>37.69</b>	<b>38.59</b>	<b>40.98</b>
Impact duration at +38 [g] in [ms]	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>3.33</b>
Impact duration at +20 [g] in [ms]	<b>18.33</b>	<b>19.17</b>	<b>17.50</b>	<b>17.50</b>
Uncertainty k=2[g]	<b>2.04</b>	<b>2.17</b>	<b>2.22</b>	<b>2.36</b>
Difference of test 1 and 2 [%]	<b>100.00</b>	<b>106.35</b>	<b>100.00</b>	<b>106.19</b>





## Paragliding Harness

Inspection number : **PH\_272.2019**  
Manufacturer : **Sky Paragliders a.s.**  
Model and size : **Skylighter 4 L**  
Maximum pilot weight [kg] : **120**  
Integrated container for rescue system: **Yes**  
If Yes. Volume of the container [cm<sup>3</sup>] : **3200 min      7600 max**  
Serial number: \_\_\_\_\_  
Production date (year / month) : \_\_\_\_\_

## Harness protector (impact pad)

Impact pad type: **Foam**  
Impact pad integrated: **Yes**  
Impact pad number: **PH\_272.2019**  
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: **EN1651:2018, EN12491:2015**. This model corresponds with the tested sample and its airworthiness.

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Test laboratory for paragliders, paraglider harnesses  
and paraglider reserve parachutes



## Paragliding Harness

Inspection number : **PH\_272.2019**  
Manufacturer : **Sky Paragliders a.s.**  
Model and size : **Skylighter 4 L**  
Maximum pilot weight [kg] : **120**  
Integrated container for rescue system: **Yes**  
If Yes. Volume of the container [cm<sup>3</sup>] : **3200 min      7600 max**  
Serial number: \_\_\_\_\_  
Production date (year / month) : \_\_\_\_\_

## Harness protector (impact pad)

Impact pad type: **Foam**  
Impact pad integrated: **Yes**  
Impact pad number: **PH\_272.2019**  
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**. This model corresponds with the tested sample and its airworthiness.

RE | rev 01 | 09.03.2018 | ISO 94.20

## Harness Structural test Report - EN

Inspection certificate number: **PH\_272.2019**

### Manufacturer data:

Manufacturer name: **Sky Paragliders a.s.**  
 Representative: **Michal Sotek**  
 Street: **Okruzni 39**  
 Post code place: **73911 Frydlant n.O.**  
 Country: **Czech Republic**

### Sample data:

Name: **Skylighter 4**  
 Type: **ABS**  
 Size: **L**  
 Serial number: **2454-13-5834**  
 Impact pad type: <sup>(1)</sup> **Foam**  
 Clip-in weight [kg]: **120**

Date of test: **13.05.2019**

### Atmosphere AGL:

[C°]	<b>20.3</b>
RH [%]	<b>40</b>
[hPa]	<b>980.6</b>

### Summary of Structural test

Test id	- EN 1651:2018	Setup	Req. Load		Min. duration [s]	Result
			[g]	Req. Load [N]		
01 <sup>(3)</sup>	V 5.5.1.1	Positive symmetric load (Slippage)	4.5	5400	5	POSITIVE
03 <sup>(3)</sup>	V 5.5.1.1b	Positive symmetric load	15	18000	5	POSITIVE
05	V 5.5.1.2	Positive asymmetric load	6	7200	5	POSITIVE
09 <sup>(3)(4)</sup>	V 5.5.1.3	Positive symmetric load rescue points	15	18000	5	POSITIVE
10 <sup>(3)(4)</sup>	5.5.1.4	Negative symmetric load rescue points	15	18000	5	n/a
14	5.5.1.5	Negative symmetric load towing points	5	6000	5	n/a
06	V 5.5.1.6	Negative symmetric load	6	7200	5	POSITIVE
12 <sup>(3)</sup>	V 5.5.1.7	Upright (landing) position load	6	7200	5	POSITIVE
11	V 5.5.1.8	Connecting element for rescue	n/a	24000	0.3	POSITIVE
08 <sup>(5)</sup>	V 5.5.1.9	Anti falling-out system	4.5	5400	5	POSITIVE

### Rescue deployment test

Test id	- NfL II 91/09	Setup	Min load			Result
			[N]	Max. load [N]	Measured [N]	
RRDT	V 6.1.5	Default flying position	20	70	79.52	POSITIVE

### Rescue Deployment Handle strength test

Test id	- EN 12491	Setup	Req. Load	Min. duration [s]	Breaking strength [N]	Result
RRST	V 5.3.2	Two end points of handle	700	10	1113.27	POSITIVE

Manufacture	Instrument	Type no	S/N	Validity Calibration
HBM	Load Sensor GE01	1-S9M/50KN-	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

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

(1) If Impact pad available, see test report no. 94.22 and inspection certificate no. 94.20. <sup>(3)</sup> Slipping test of any adjustable components: No slippage of any adjustable element more than 10 mm at 4500N for 5 s. The marks should be added with a pre-load of 1000N. <sup>(4)</sup> For harness with integrated Y bridle, test in the end loop <sup>(5)</sup> Attach to anti-falling out system without connecting the crotch straps (breast straps)

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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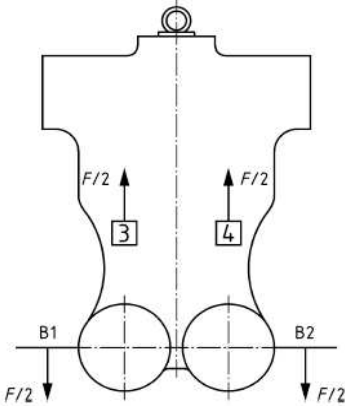
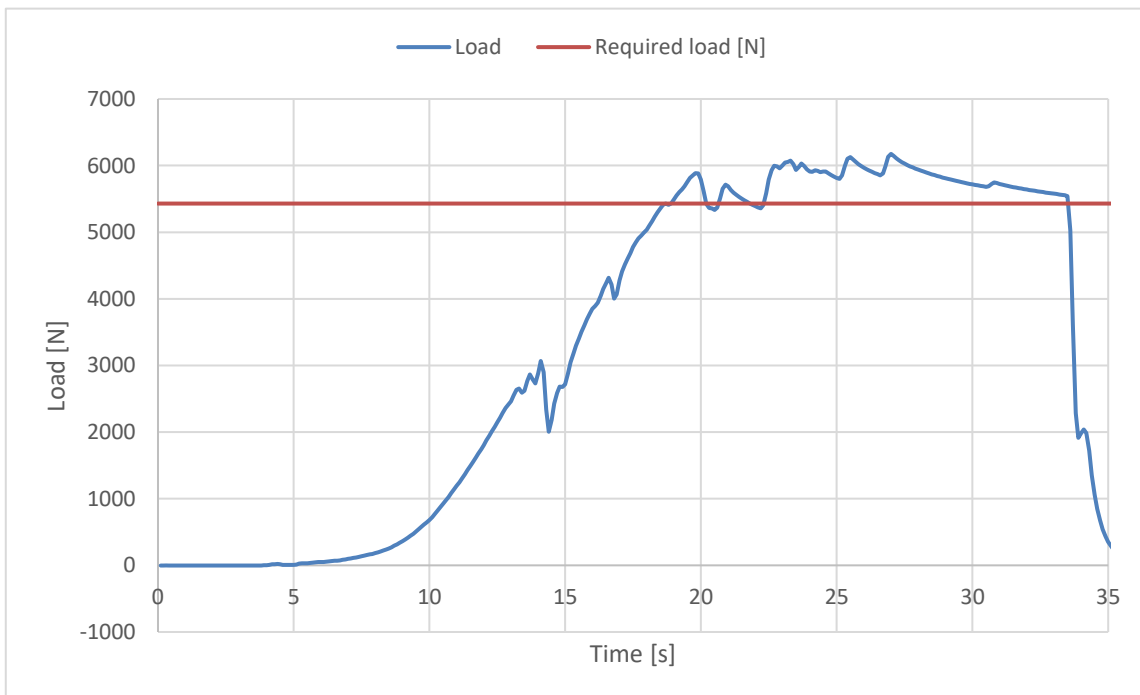
Inspection certificate number: **PH\_272.2019**

model: **Skylighter 4**

**Harness Structural test**

**Test ID 01**

Standard	<b>EN 1651:2018</b>
Reference in standard	<b>5.5.1.1</b>
Test setup	<b>Positive symmetric load (Slippage)</b>
Attachment points	<b>Both main riser attachment (3,4)</b>
Anchor points	<b>Dummy (B1, B2)</b>
Required load [g]	<b>4.5</b>
Required load [N]	<b>5400</b>
Minimum test duration [s]	<b>5</b>
<b>Result</b>	
Test duration [s]	<b>11.2</b>
Any signs of structural failure	<b>No</b>
Slippery test OK	<b>Yes</b>
Test results	<b>POSITIVE</b>

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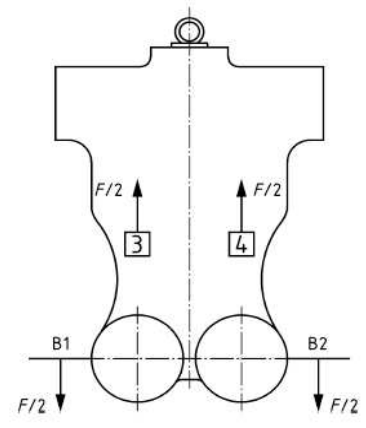


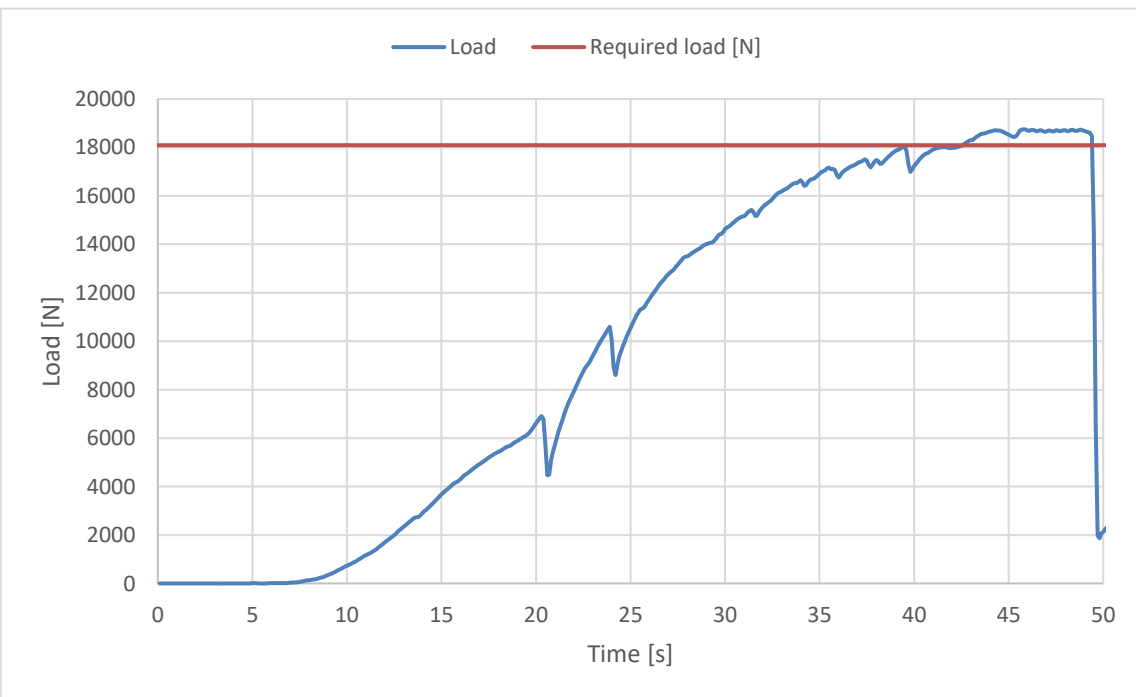
Inspection certificate number: **PH\_272.2019**

model: **Skylighter 4**

**Harness Structural test**

**Test ID 03**

Standard	<b>EN 1651:2018</b>	
Reference in standard	<b>5.5.1.1b</b>	
Test setup	<b>Positive symmetric load</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>6.9</b>	
Any signs of structural failure	<b>No</b>	
Slippery test OK	<b>Yes</b>	
Test results	<b>POSITIVE</b>	



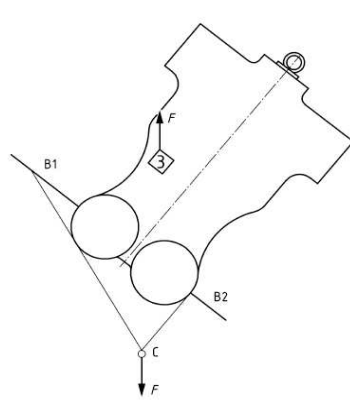
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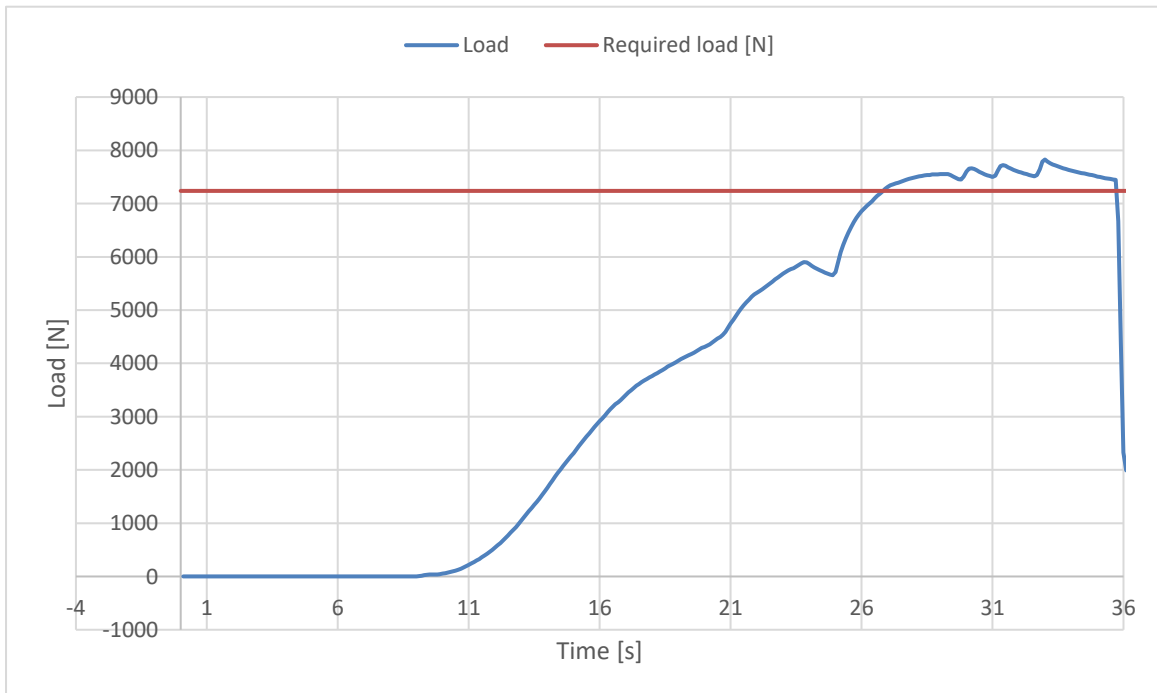
Inspection certificate number: **PH\_272.2019**

model: **Skylighter 4**

**Harness Structural test**

**Test ID 05**

Standard	<b>EN 1651:2018</b>	
Reference in standard	<b>5.5.1.2</b>	
Test setup	<b>Positive asymmetric load</b>	
Attachment points	<b>One riser attachment (3 or 4)</b>	
Anchor points	<b>Dummy (C)</b>	
Required load [g]	<b>6</b>	
Required load [N]	<b>7200</b>	
Minimum test duration [s]	<b>5</b>	
<b>Result</b>		
Test duration [s]	<b>8.9</b>	
Any signs of structural failure	<b>No</b>	
Test results	<b>POSITIVE</b>	



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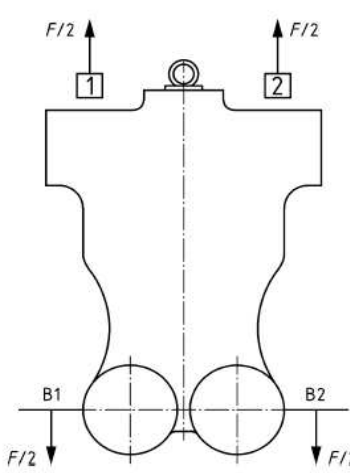
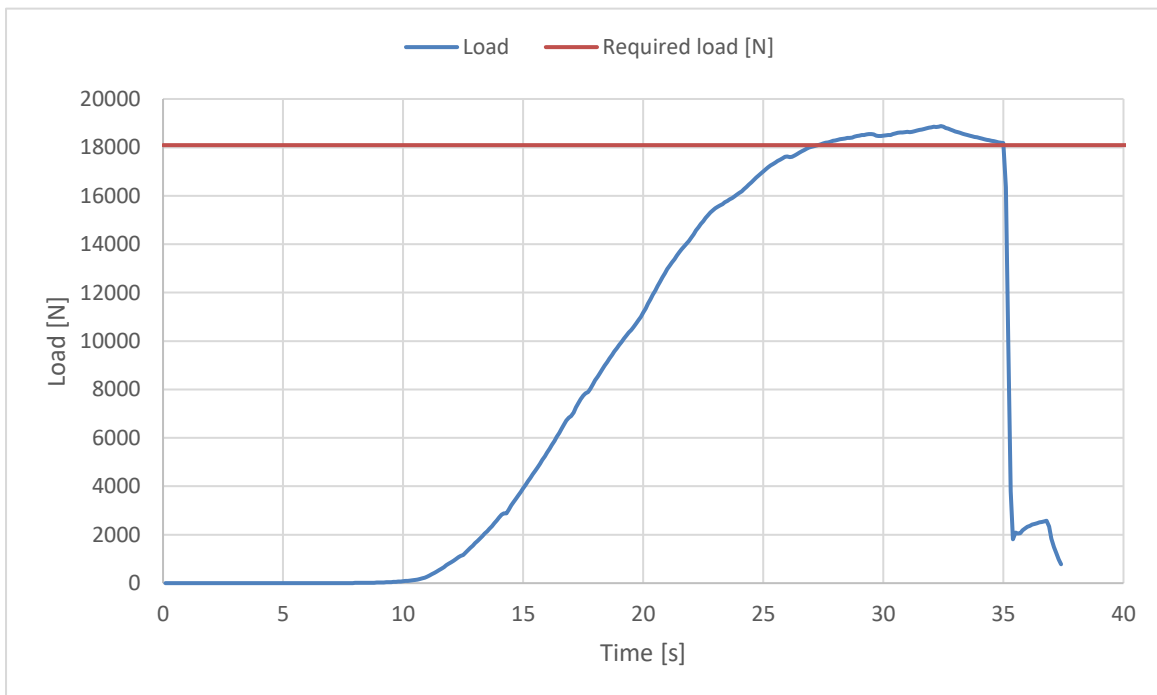
Inspection certificate number: **PH\_272.2019**

model: **Skylighter 4**

**Harness Structural test**

**Test ID 09**

Standard	<b>EN 1651:2018</b>
Reference in standard	<b>5.5.1.3</b>
Test setup	<b>Positive symmetric load rescue points</b>
Attachment points	<b>Both main 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>7.8</b>
Any signs of structural failure	<b>No</b>
Slippery test OK	<b>Yes</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

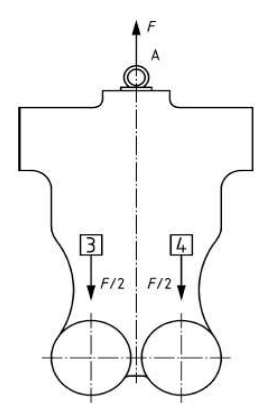
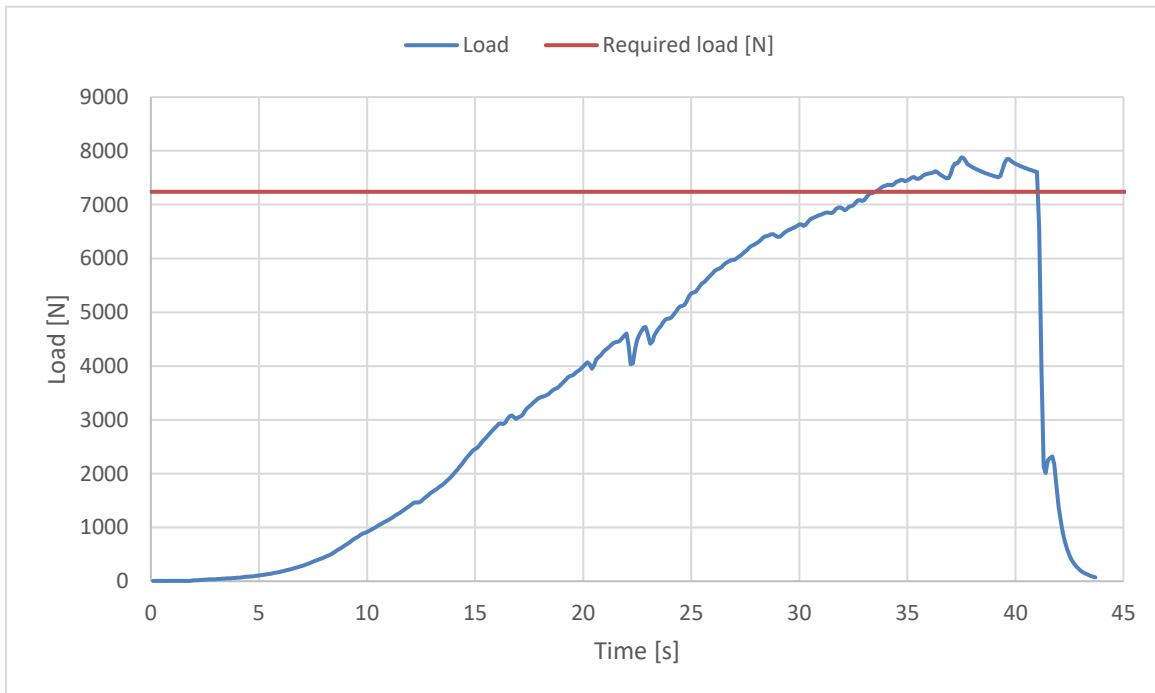
Inspection certificate number: **PH\_272.2019**

model: **Skylighter 4**

**Harness Structural test**

**Test ID 06**

Standard	<b>EN 1651:2018</b>
Reference in standard	<b>5.5.1.6</b>
Test setup	<b>Negative symmetric load</b>
Attachment points	<b>Both main riser attachment (3,4)</b>
Anchor points	<b>Dummy (A)</b>
Required load [g]	<b>6</b>
Required load [N]	<b>7200</b>
Minimum test duration [s]	<b>5</b>
<b>Result</b>	
Test duration [s]	<b>7.5</b>
Any signs of structural failure	<b>No</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

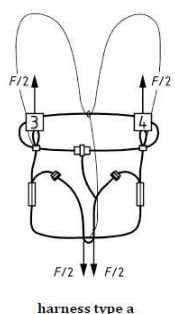
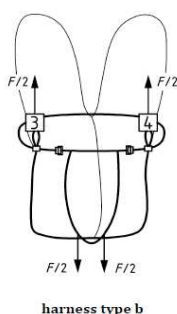
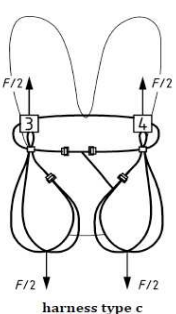
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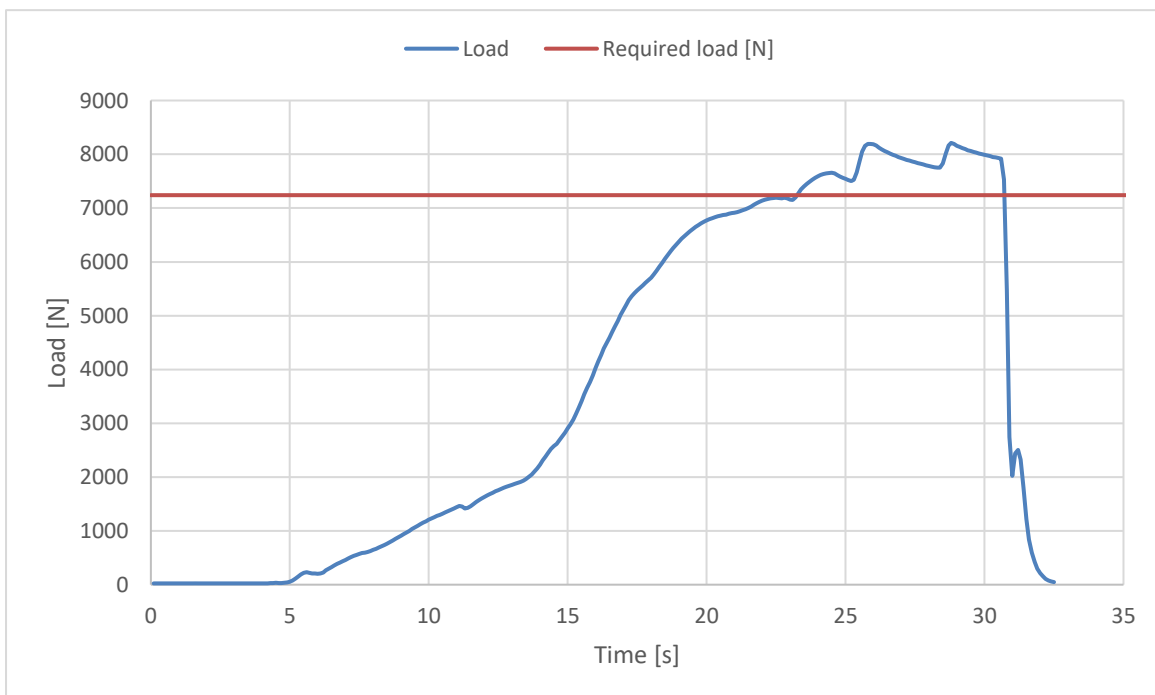
model: **Skylighter 4**

**Harness Structural test**

**Test ID 12**

Standard	<b>EN 1651:2018</b>
Reference in standard	<b>5.5.1.7</b>
Test setup	<b>Upright (landing) position load</b>
Attachment points	<b>Both main riser attachment (3, 4)</b>
Anchor points	<b>Both legstrap of harness (no dummy)</b>
Required load [g]	<b>6</b>
Required load [N]	<b>7200</b>
Minimum test duration [s]	<b>5</b>
Harness type	<b>type a</b>
<b>Result</b>	
Test duration [s]	<b>7.5</b>
Any signs of structural failure	<b>No</b>
Slippery test OK	<b>Yes</b>
Test results	<b>POSITIVE</b>



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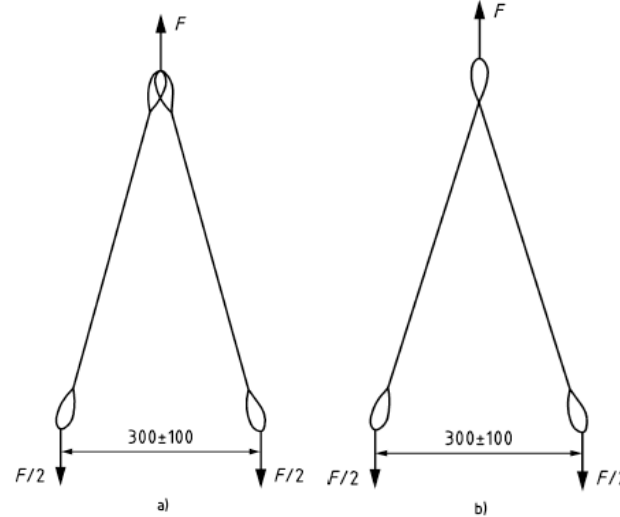
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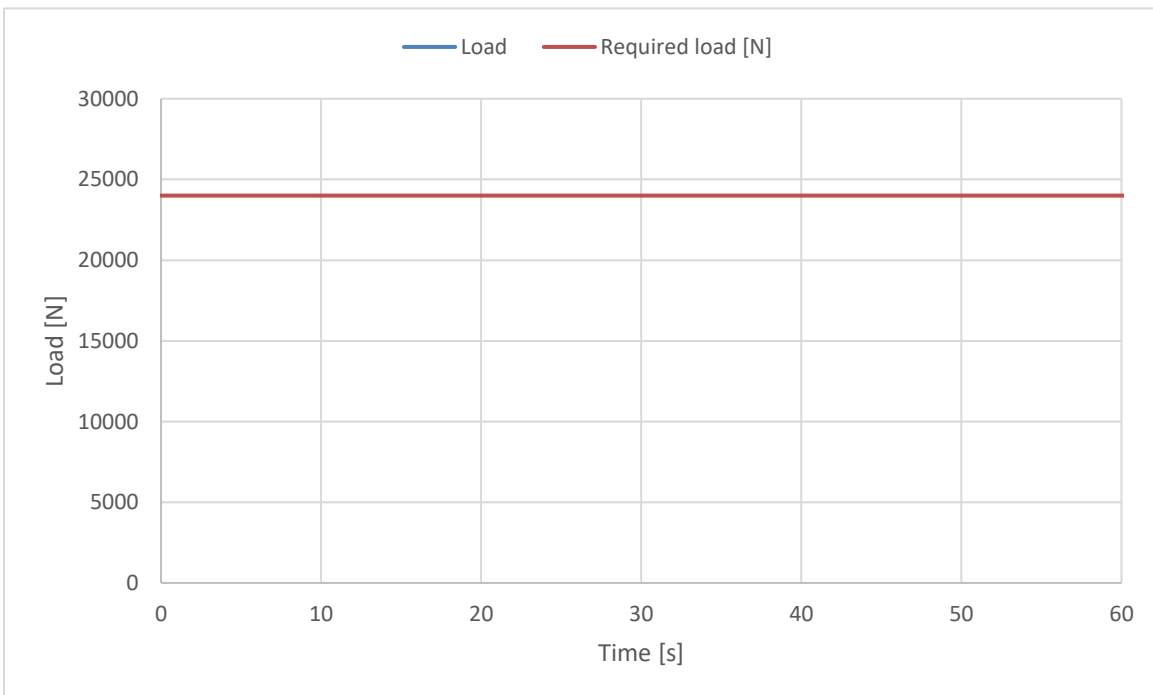
model: **Skylighter 4**

**Harness Structural test**

**Test ID 11**

Standard	<b>EN 1651:2018</b>
Reference in standard	<b>5.5.1.8</b>
Test setup	<b>Connecting element for rescue</b>
Attachment points	<b>End point (emergency parachute)</b>
Anchor points	<b>Both attachment to harness</b>
Required load [g]	<b>n/a</b>
Required load [N]	<b>24000</b>
Minimum test duration [s]	<b>0.3</b>
Type of connecting element	<b>n/a</b>
<b>Result</b>	
Test duration [s]	<b>0</b>
Any signs of structural failure	<b>No</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

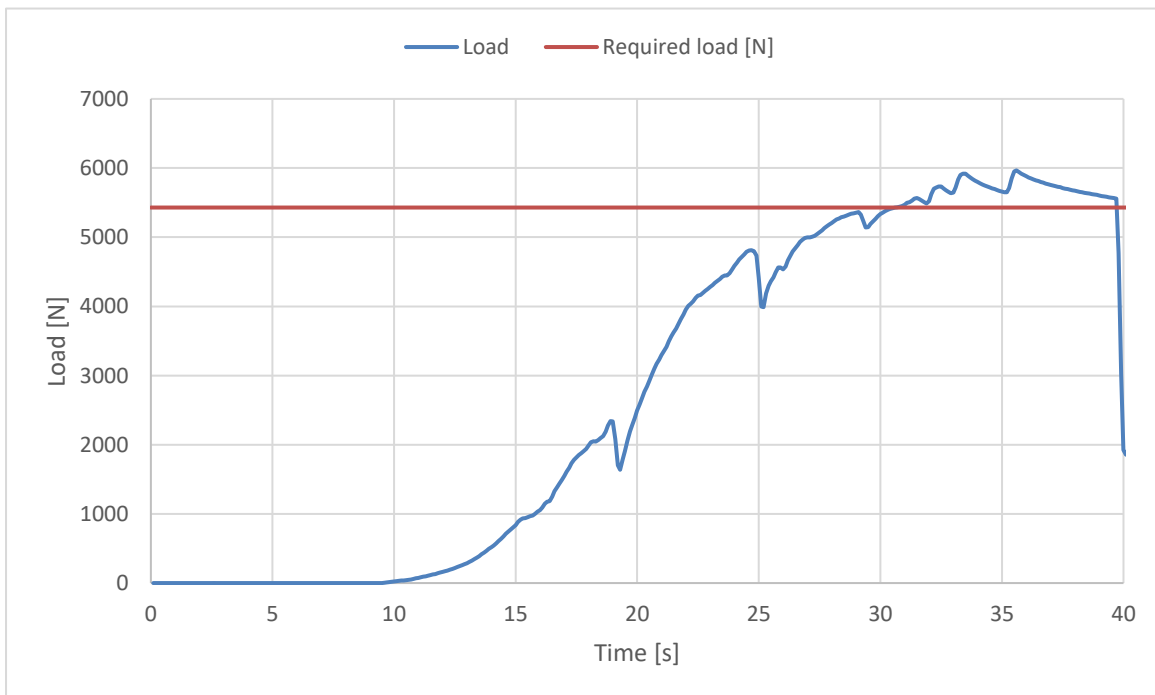
Inspection certificate number: **PH\_272.2019**

model: **Skylighter 4**

**Harness Structural test**

**Test ID 08**

Standard	<b>EN 1651:2018</b>
Reference in standard	<b>5.5.1.9</b>
Test setup	<b>Anti falling-out system</b>
Attachment points	<b>Around anti falling-out system</b>
Anchor points	<b>Both main riser attachment (no dummy)</b>
Required load [g]	<b>4.5</b>
Required load [N]	<b>5400</b>
Minimum test duration [s]	<b>5</b>
<b>Result</b>	
Test duration [s]	<b>9.1</b>
Any signs of structural failure	<b>No</b>
Test results	<b>POSITIVE</b>



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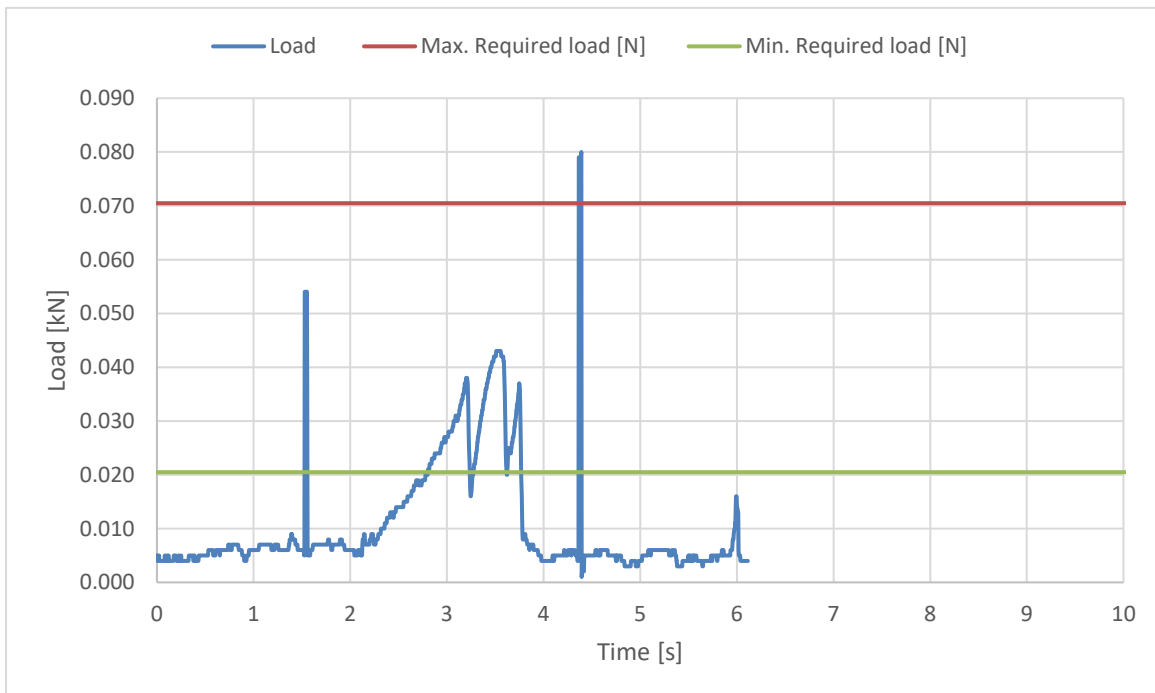
Inspection certificate number: **PH\_272.2019**

model: **Skylighter 4**

**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>79.52</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



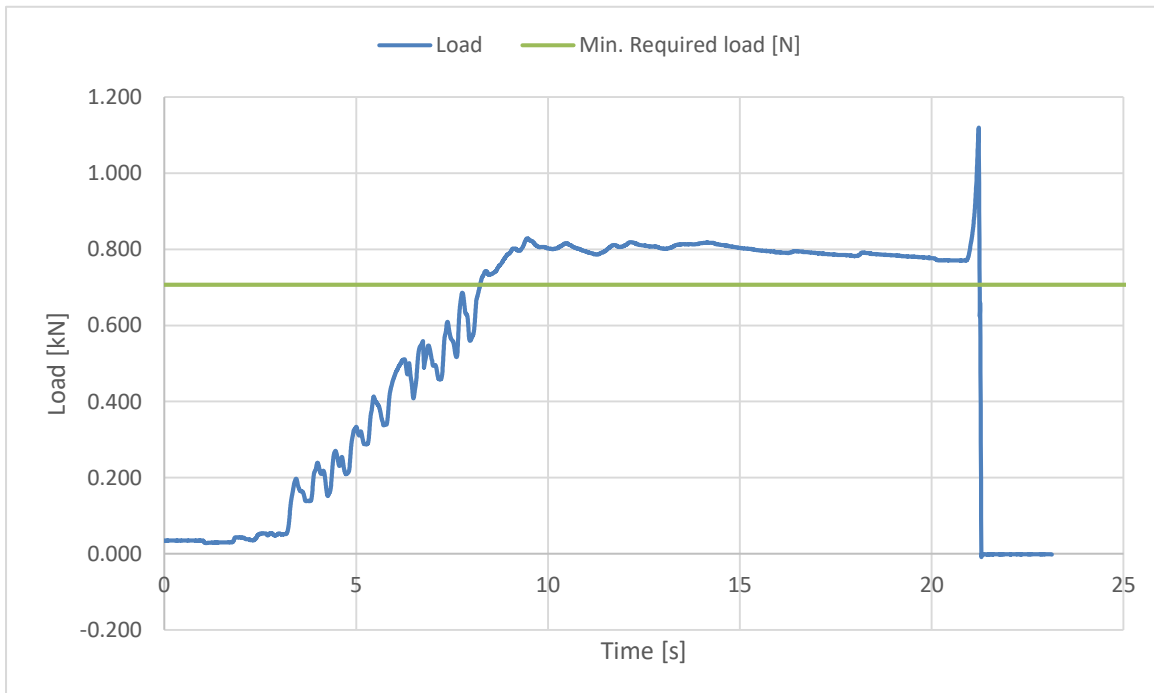
Inspection certificate number: **PH\_272.2019**

model: **Skylighter 4**

**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>12.8</b>
Breaking strength [N]	<b>1113.27</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

## Harness Structural test Report - LTF

Inspection certificate number: **PH\_272.2019**

### Manufacturer data:

Manufacturer name: **Sky Paragliders a.s.**  
 Representative: **Michal Sotek**  
 Street: **Okruzni 39**  
 Post code place: **73911 Frydlant n.O.**  
 Country: **Czech Republic**

### Sample data:

Name: **Skylighter 4**  
 Type: **ABS**  
 Size: **L**  
 Serial number: **2454-13-5834**  
 Impact pad type: <sup>(1)</sup> **Foam**  
 Clip-in weight [kg]: **120**

Date of test: **13.05.2019**

### Atmosphere AGL:

[C°]	<b>20.3</b>
RH [%]	<b>40</b>
[hPa]	<b>980.6</b>

### Summary of Structural test

Test id	- EN 1651	Setup	Req. Load [g]	Req. Load [N]	Min. duration [s]	Result
02	✓ 5.3.2.1	Default flying position	6	7200	10	POSITIVE
03	✓ 5.3.2.2	Default flying position	15	18000	5	POSITIVE
13	✓ 5.3.2.7	Flying position before landing	15	18000	5	POSITIVE
09	✓ 5.3.2.4	Rescue attachments	15	18000	5	POSITIVE
04	✓ 5.3.2.3	Asymmetric, one riser	6	7200	10	POSITIVE
14	5.3.2.5	Towing	5	6000	10	n/a
07	✓ 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	79.31	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	1110.29	POSITIVE

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

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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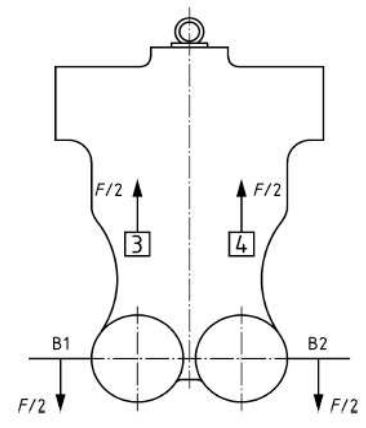
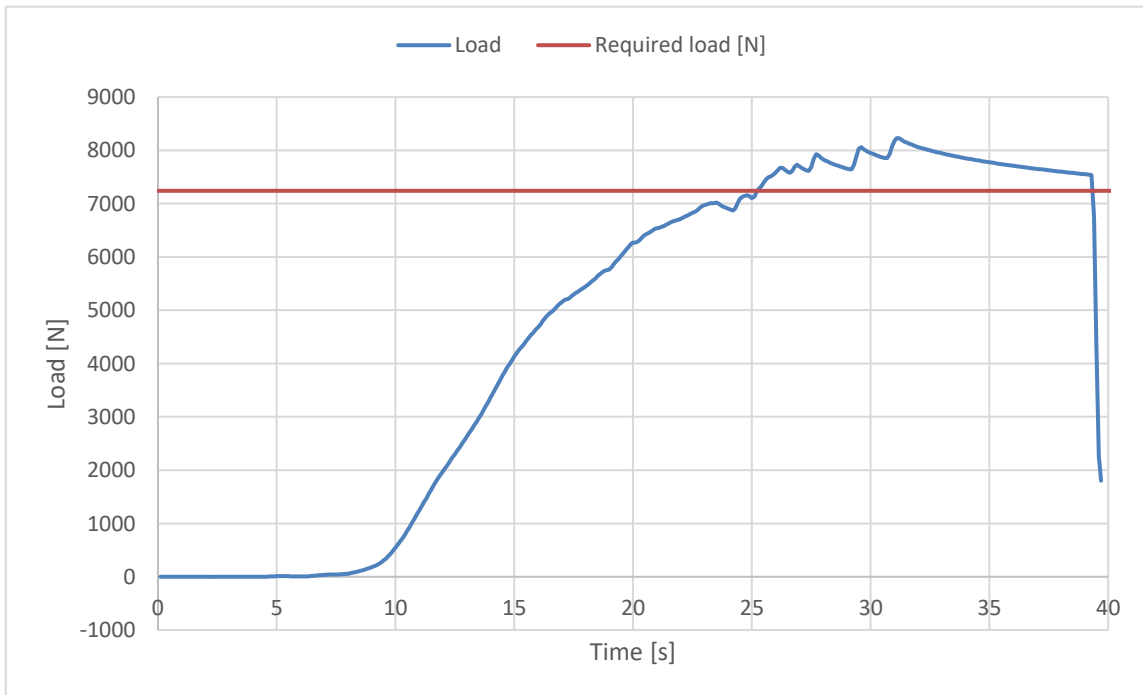
Inspection certificate number: **PH\_272.2019**

model: **Skylighter 4**

**Harness Structural test**

**Test ID 02**

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>14.1</b>
Any signs of structural failure	<b>No</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

Inspection certificate number: **PH\_272.2019**

model: **Skylighter 4**

**Harness Structural test**

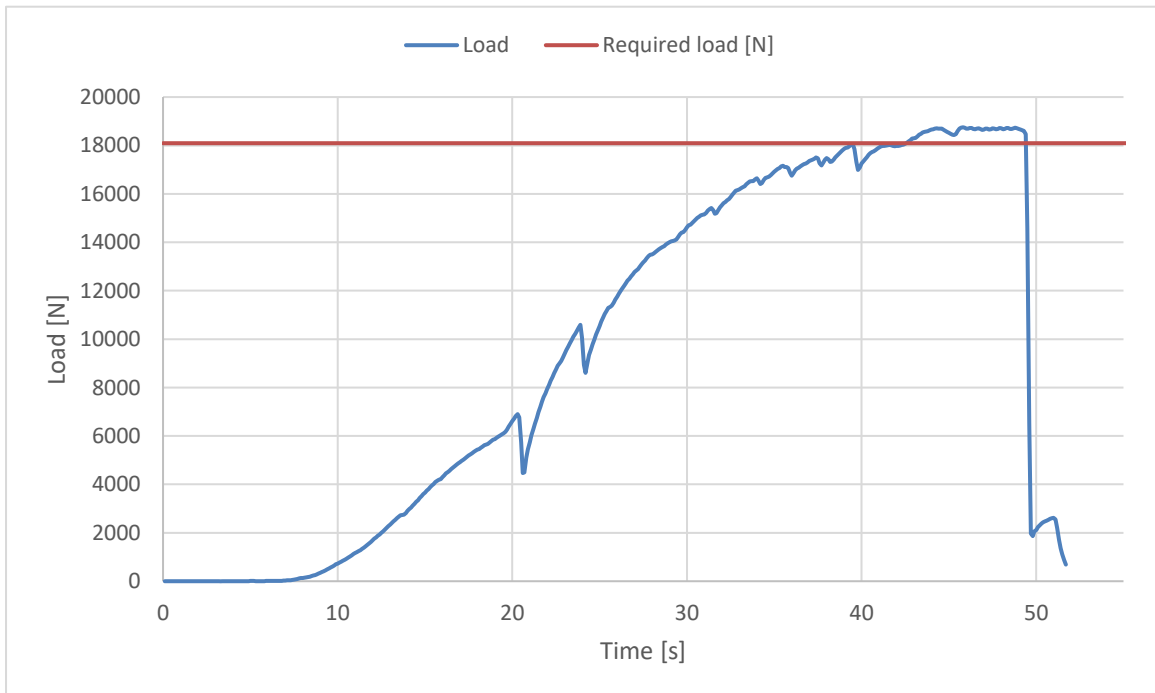
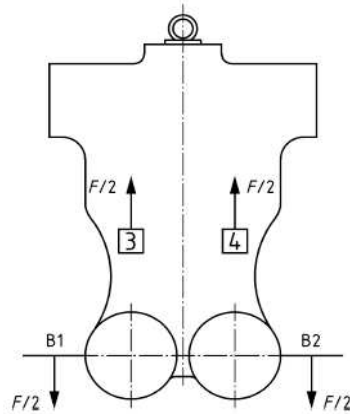
**Test ID 03**

Standard **EN 1651:1999**  
 Reference in standard **5.3.2.2**  
 Test setup **Default flying position**  
 Attachment points **Both main riser attachment (3,4)**  
 Anchor points **Dummy (B1, B2)**

Required load [g] **15**  
 Required load [N] **18000**  
 Minimum test duration [s] **5**

**Result**

Test duration [s] **6.9**  
 Any signs of structural failure **No**  
 Test results **POSITIVE**



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

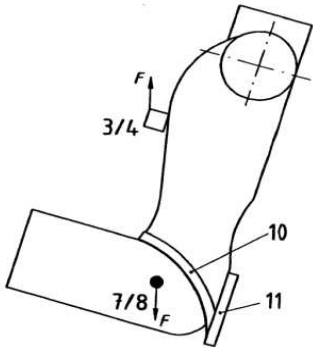
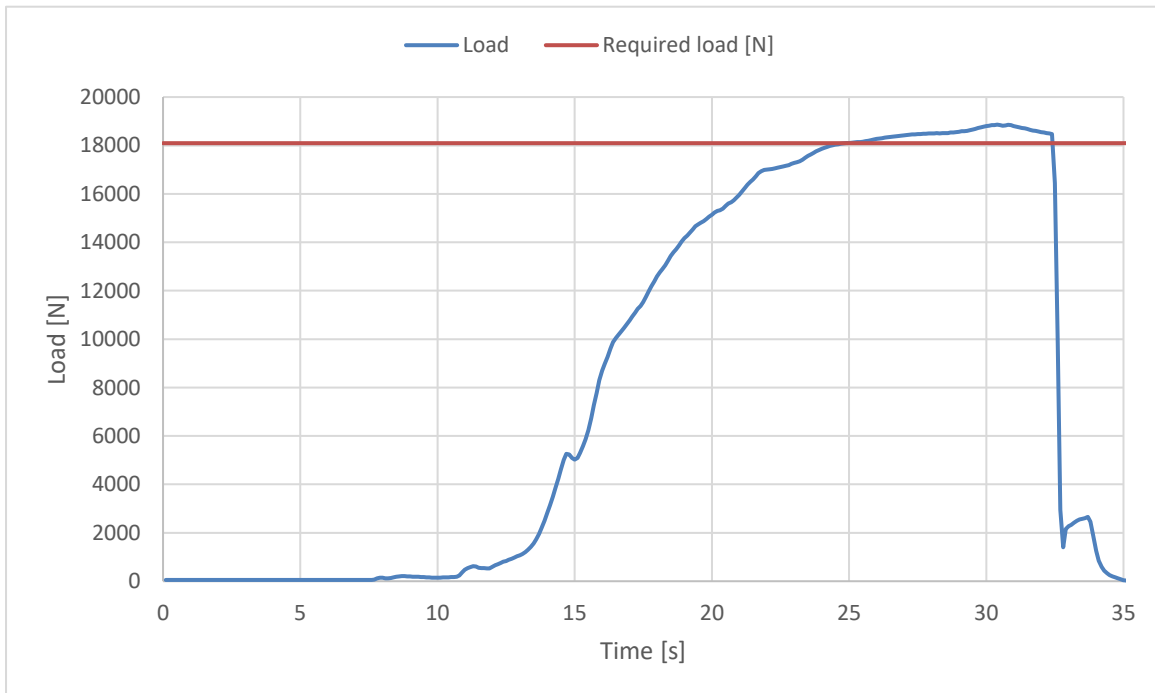
Inspection certificate number: **PH\_272.2019**

model: **Skylighter 4**

**Harness Structural test**

**Test ID 13**

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>7.6</b>
Any signs of structural failure	<b>No</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

Inspection certificate number: **PH\_272.2019**

model: **Skylighter 4**

**Harness Structural test**

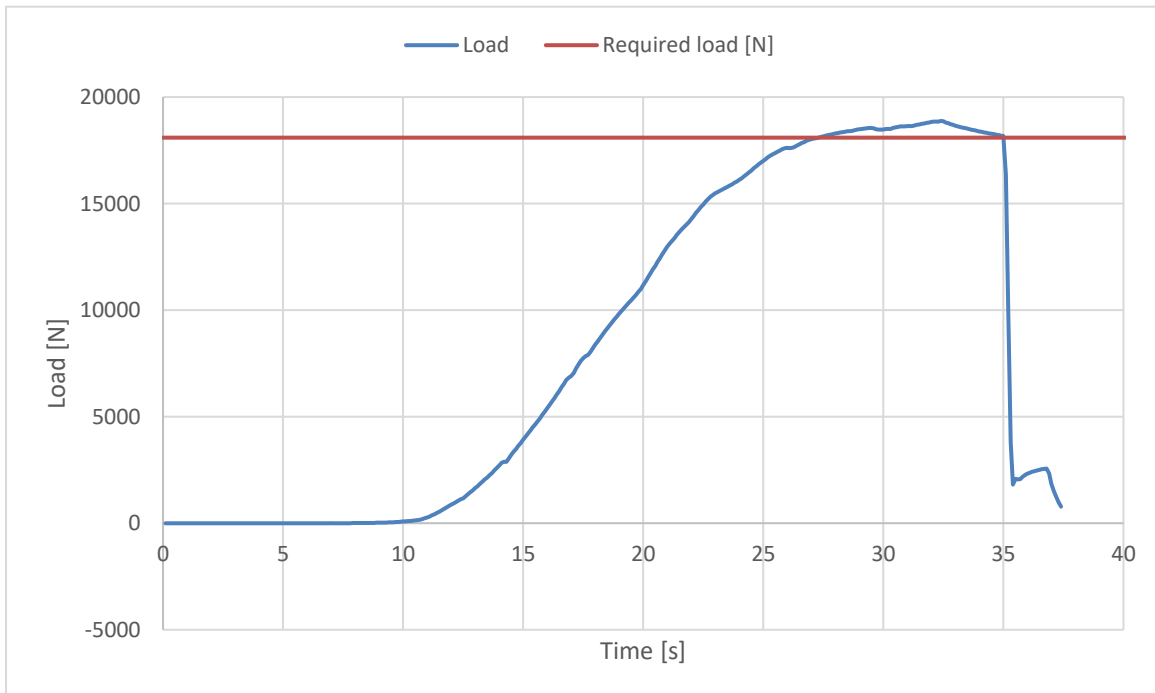
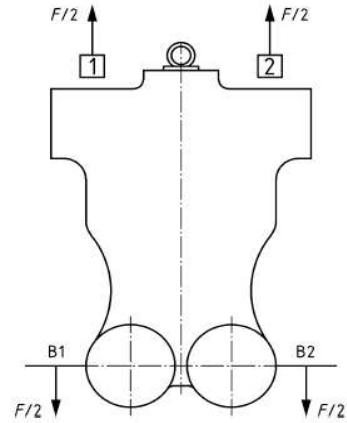
**Test ID 09**

Standard **EN 1651:1999**  
 Reference in standard **5.3.2.4**  
 Test setup **Rescue attachments**  
 Attachment points **Rescue riser attachment (1,2)**  
 Anchor points **Dummy (B1,B2)**

Required load [g] **15**  
 Required load [N] **18000**  
 Minimum test duration [s] **5**

**Result**

Test duration [s] **7.8**  
 Any signs of structural failure **No**  
 Test results **POSITIVE**



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Inspection certificate number: **PH\_272.2019**

model: **Skylighter 4**

**Harness Structural test**

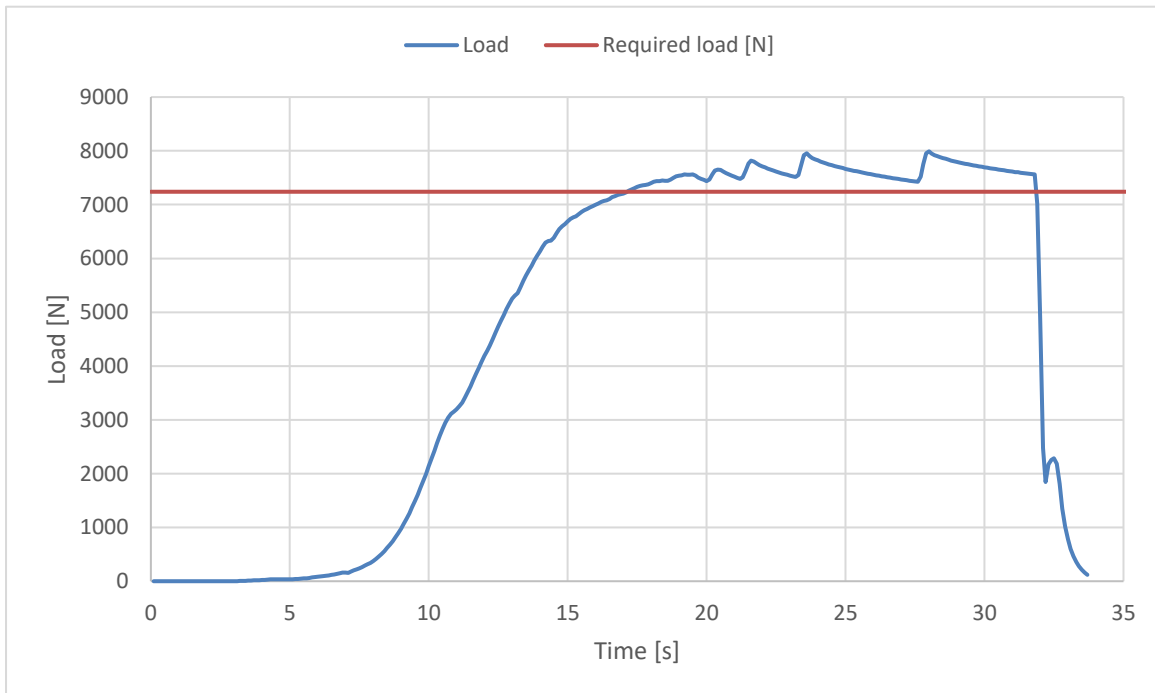
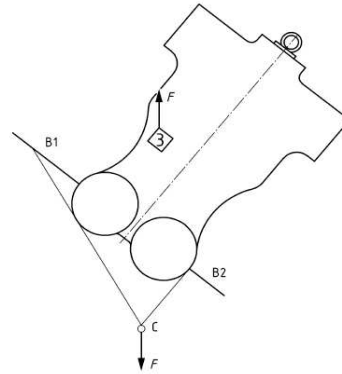
**Test ID 04**

Standard **EN 1651:1999**  
 Reference in standard **5.3.2.3**  
 Test setup **Asymmetric, one riser**  
 Attachment points **One main riser attachment (3)**  
 Anchor points **Dummy (B1,B2)**

Required load [g] **6**  
 Required load [N] **7200**  
 Minimum test duration [s] **10**

**Result**

Test duration [s] **14.7**  
 Any signs of structural failure **No**  
 Test results **POSITIVE**



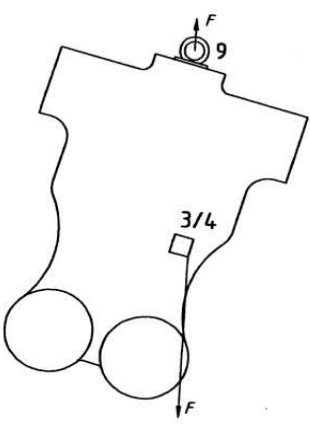
The validation of this test report is given by the signature of the test manager on the Inspection Certificate no 94.20

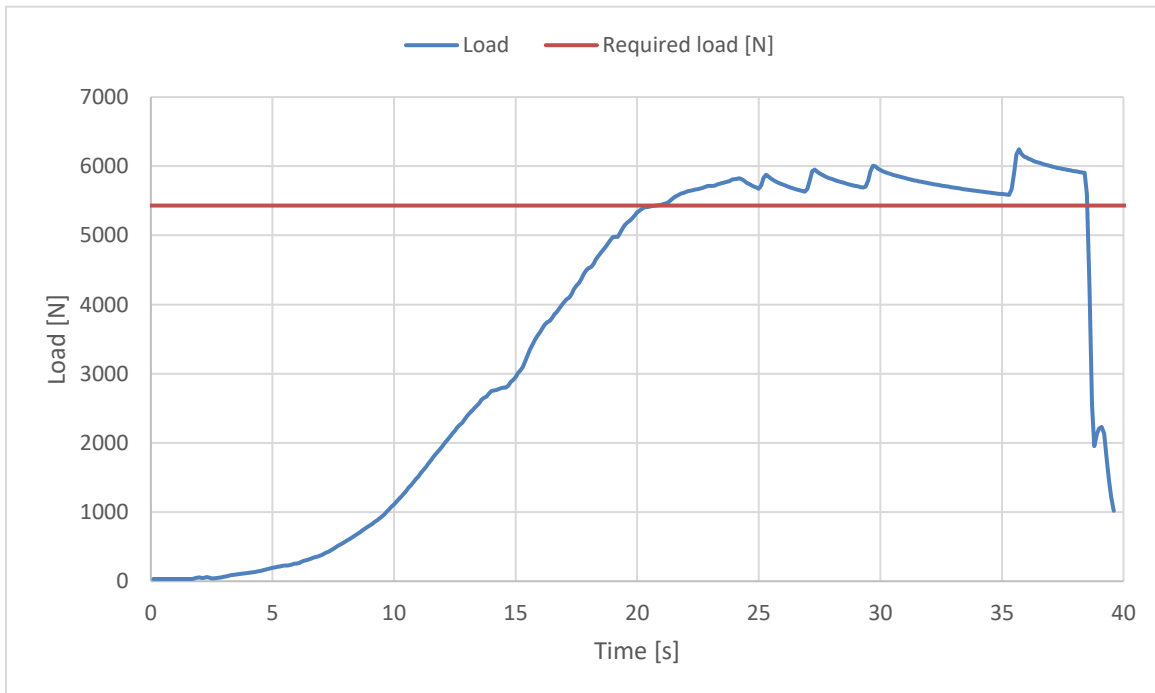
Inspection certificate number: **PH\_272.2019**

model: **Skylighter 4**

**Harness Structural test**

**Test ID 07**

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>17.8</b>	
Any signs of structural failure	<b>No</b>	
Test results	<b>POSITIVE</b>	



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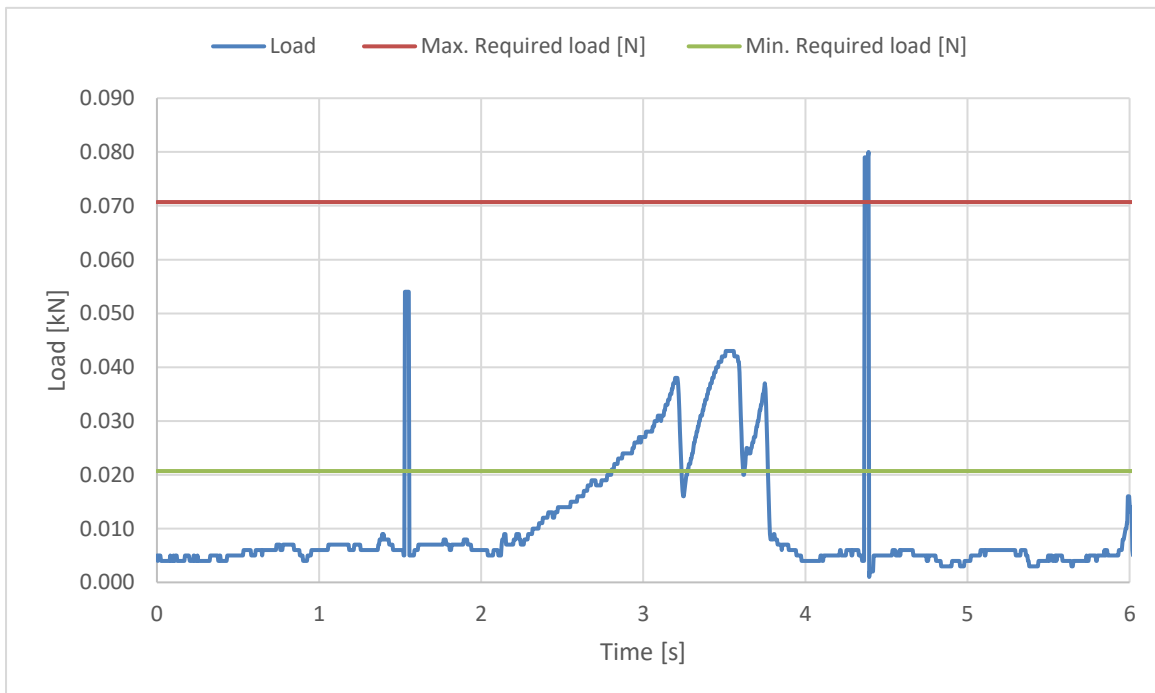
Inspection certificate number: **PH\_272.2019**

model: **Skylighter 4**

**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>79.31</b>
Test results	<b>POSITIVE</b>



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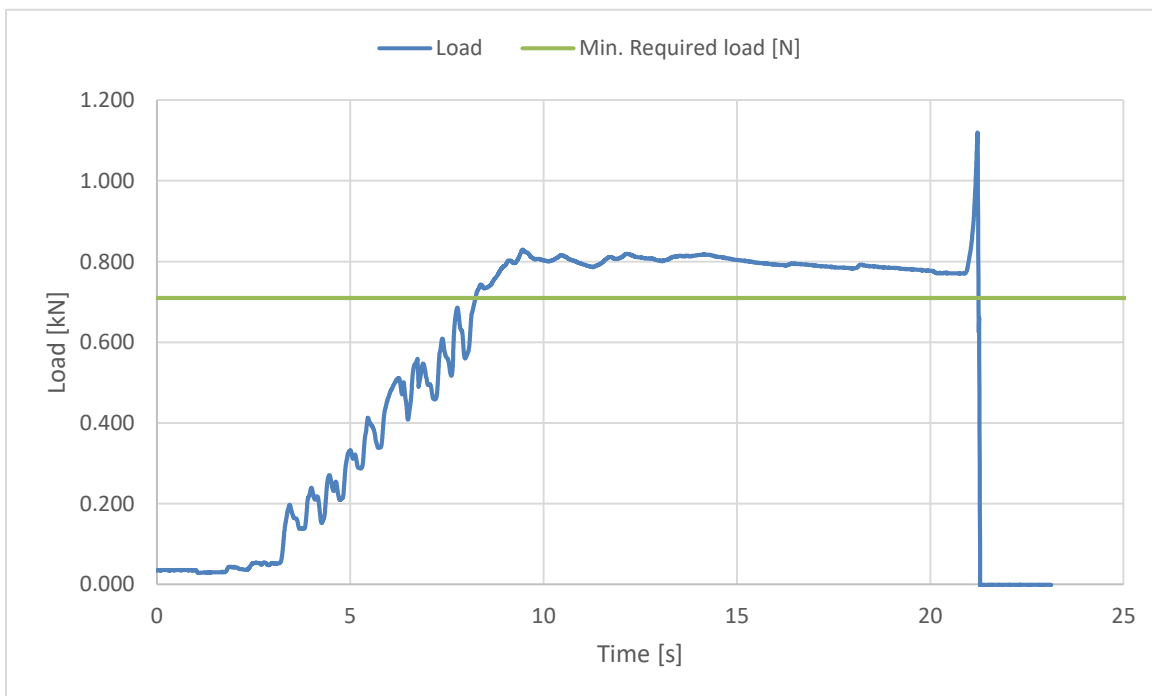
Inspection certificate number: **PH\_272.2019**

model: **Skylighter 4**

**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>12.8</b>
Breaking strength [N]	<b>1110.29</b>
Test results	<b>POSITIVE</b>



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