

# Harness inspection certificate

Inspection certificate number: PH\_270.2019

Impact pad number: PH\_167.2016

## Manufacturer data

Manufacturer name: Sky Paragliders  
 Representative: Nemeč Martin  
 Street: Okružni 39  
 Post code / place: 73911 Frydlant N.C.  
 Country: Czech Republic

## Sample data: Harness Impact pad

Name:	Gii 4 ALPHA	Name Impact pad: <sup>(1)</sup>	n/a
Type:	ABS	Impact pad integrated: <sup>(1)</sup>	Yes
Size:	L	Impact pad type:	Foam
Weight of Sample [kg]:	3.35	Weight of Sample [kg]: <sup>(1)</sup>	n/a
Serial number:	2453-13-5688	Serial number: <sup>(1)</sup>	n/a
Clip-in weight [kg]:	120	Date of reception:	24.01.2019
Integrated container for rescue system:	Yes		
Volume container [cm <sup>3</sup> ]:			
			7600 max
			2300 min
Date of reception:	24.01.2019		

## Test report summary Structural test Impact pad test

Result	POSITIVE	POSITIVE
Place	Villeneuve	Villeneuve
Date	03.04.2019	14.06.2016

## Issue data

Place of declaration: Villeneuve  
 Date of issue: 05.04.2019  
 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 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 dismounted 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 Structural test Report

Inspection certificate number: **PH\_270.2019**
**Manufacturer data:**

Manufacturer name: **Sky Paragliders**  
 Representative: **Nemec Martin**  
 Street: **Okruzni 39**  
 Post code place: **73911 Frydlant N.C.**  
 Country: **Czech Republic**

**Sample data:**

Name: **Gii 4 ALPHA**  
 Type: **ABS**  
 Size: **L**  
 Serial number: **2453-13-5688**  
 Impact pad type: <sup>(1)</sup> **Foam**  
 Clip-in weight [kg]: **120**

Date of test: **03.04.2019**
**Atmosphere AGL:**

[C°]	<b>20.7</b>
RH [%]	<b>35</b>
[hPa]	<b>960</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	<b>POSITIVE</b>
R2	✓ 5.3.2.2	Default flying position	15	18000	5	<b>POSITIVE</b>
R4	✓ 5.3.2.7	Flying position before landing	15	18000	5	<b>POSITIVE</b>
R6	✓ 5.3.2.4	Rescue attachments	15	18000	5	<b>POSITIVE</b>
R8	✓ 5.3.2.3	Asymmetric, one riser	6	7200	10	<b>POSITIVE</b>
R9	5.3.2.5	Towing	5	6000	10	<b>n/a</b>
R10	✓ 5.3.2.6	Asymmetric, negative	4.5	5400	10	<b>POSITIVE</b>

**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	<b>50.69</b>	<b>POSITIVE</b>

**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	<b>1108.30</b>	<b>POSITIVE</b>

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%.

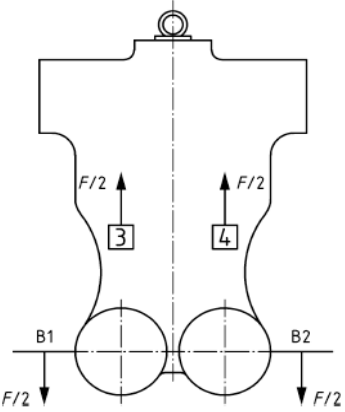
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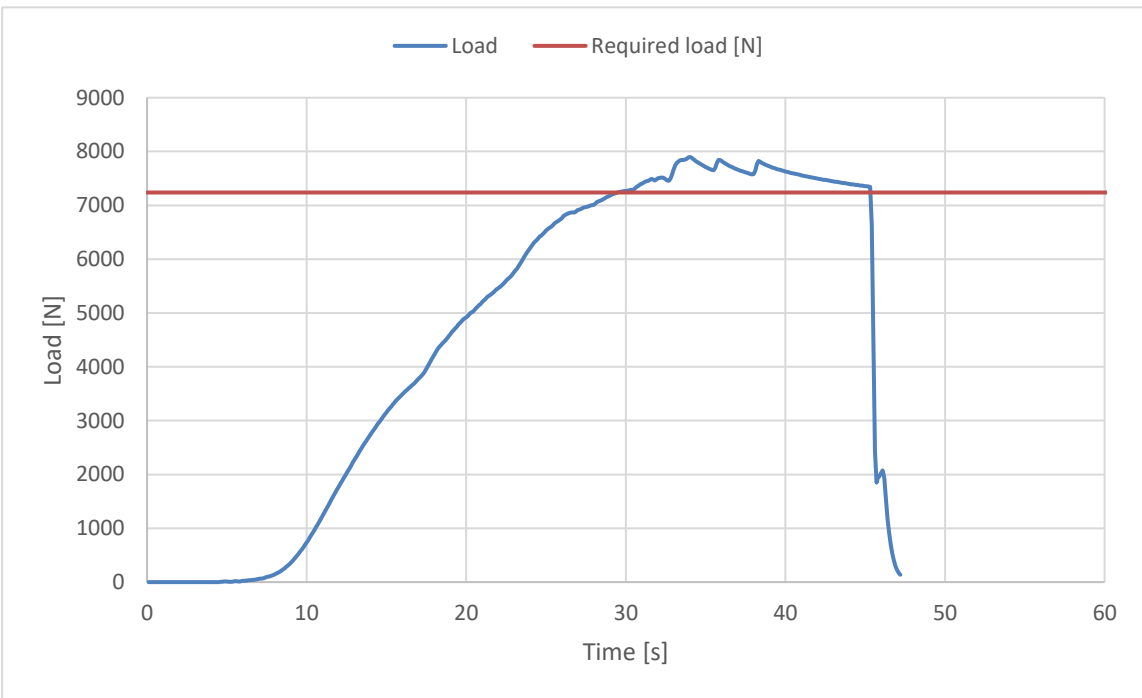
Inspection certificate number: **PH\_270.2019**

model: **Gii 4 ALPHA L**

**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>15.9</b>	
Any signs of structural failure	<b>No</b>	
Test results	<b>POSITIVE</b>	



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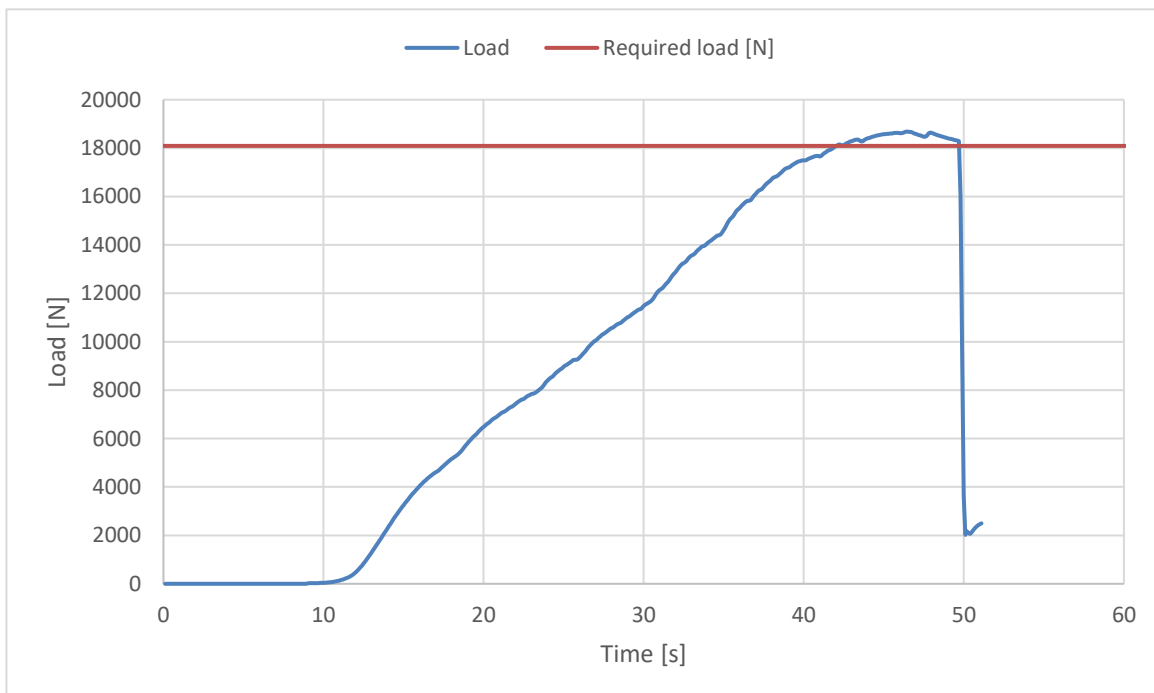
Inspection certificate number: **PH\_270.2019**

model: **Gii 4 ALPHA L**

**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>7.7</b>	
Any signs of structural failure	<b>No</b>	
Test results	<b>POSITIVE</b>	



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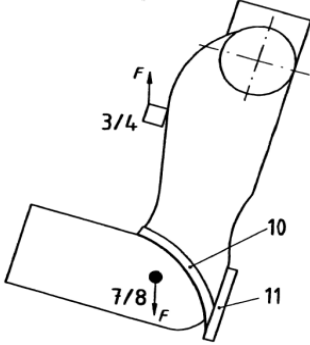
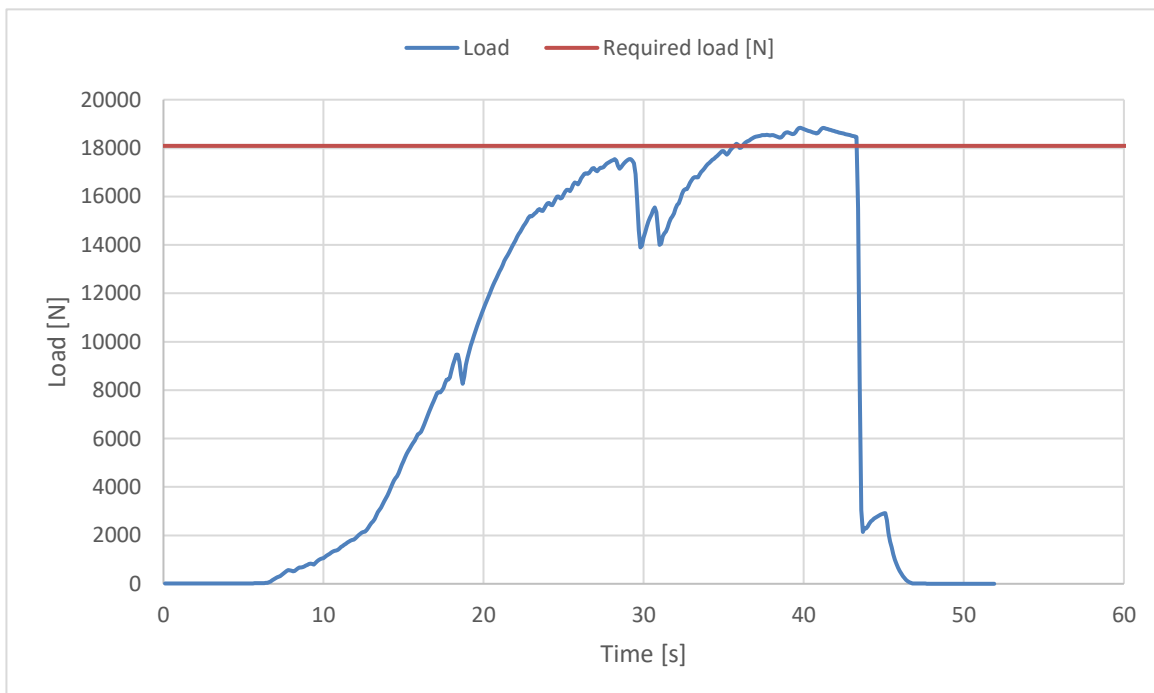
Inspection certificate number: **PH\_270.2019**

model: **Gii 4 ALPHA L**

**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>7.2</b>
Any signs of structural failure	<b>No</b>
Test results	<b>POSITIVE</b>

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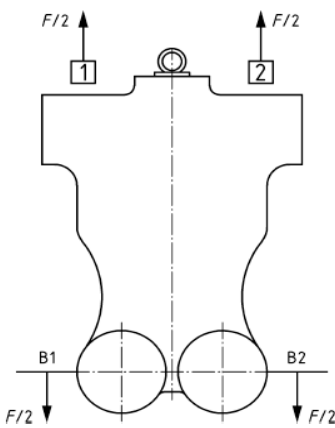
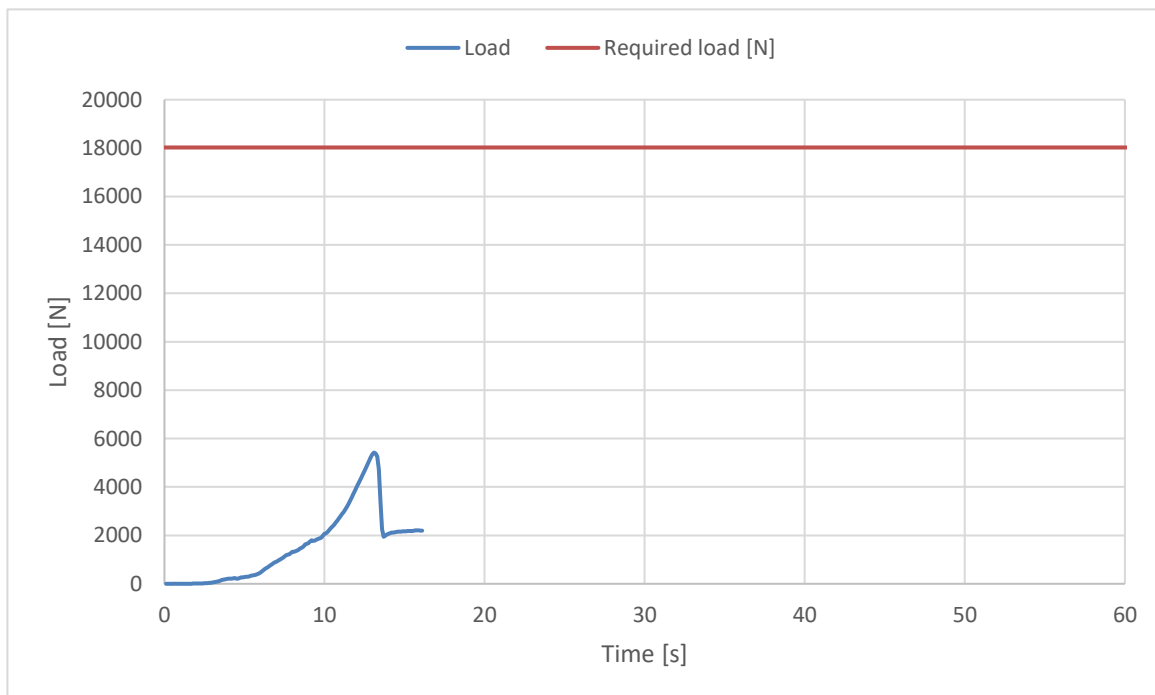
Inspection certificate number: **PH\_270.2019**

model: **Gii 4 ALPHA L**

**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>0</b>
Any signs of structural failure	<b>No</b>
Test results	<b>POSITIVE</b>

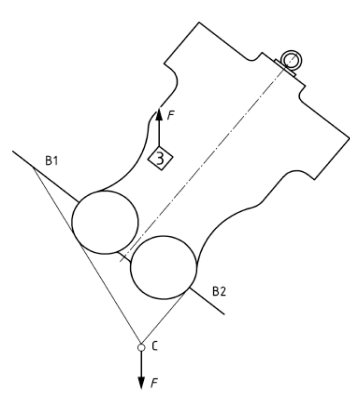
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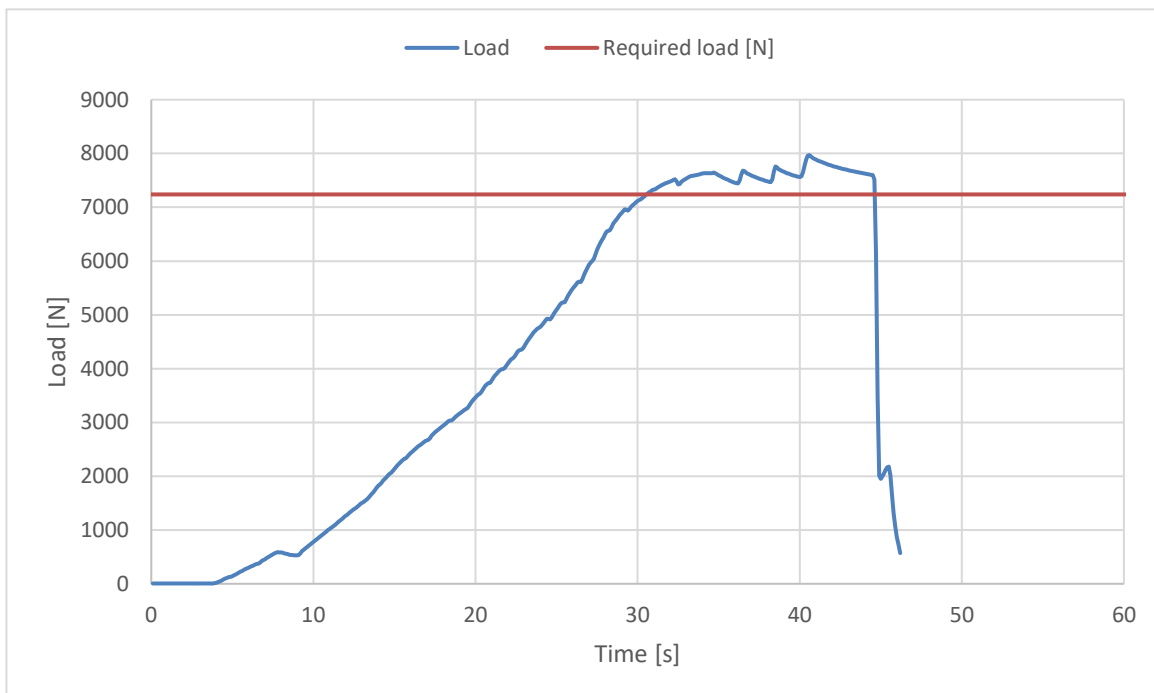
Inspection certificate number: **PH\_270.2019**

model: **Gii 4 ALPHA L**

**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>14.1</b>	
Any signs of structural failure	<b>No</b>	
Test results	<b>POSITIVE</b>	



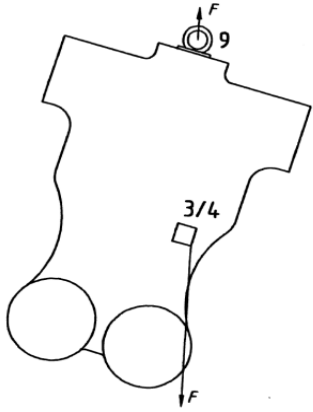
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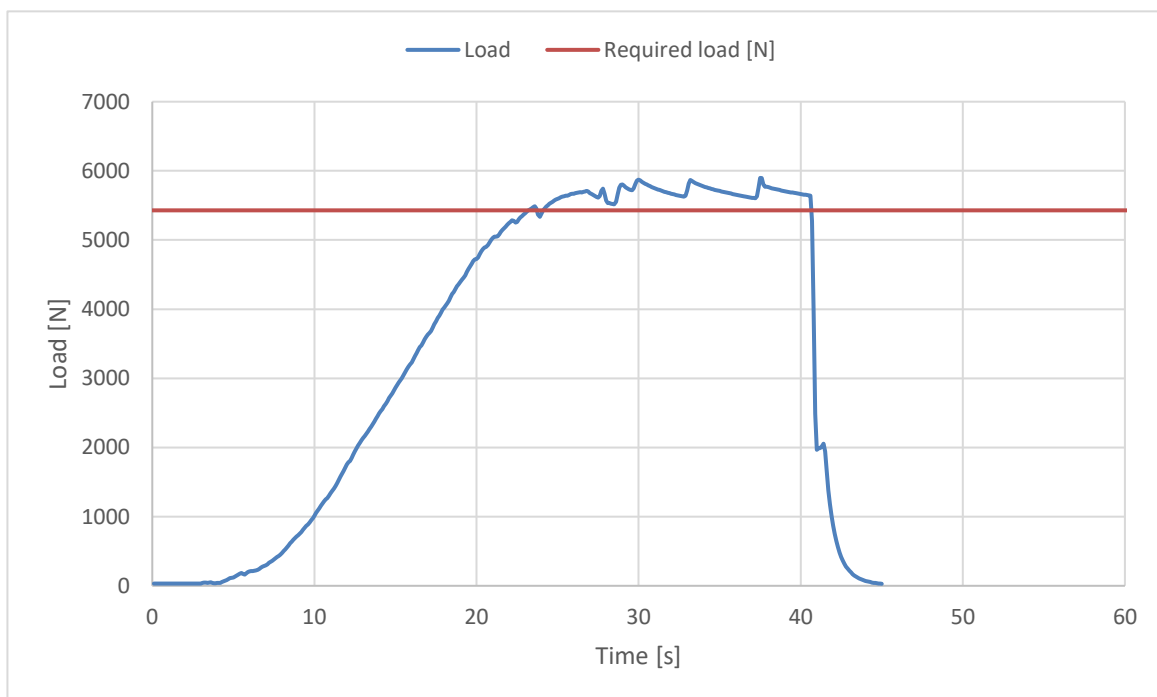
Inspection certificate number: **PH\_270.2019**

model: **Gii 4 ALPHA L**

**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>16.5</b>	
Any signs of structural failure	<b>No</b>	
Test results	<b>POSITIVE</b>	



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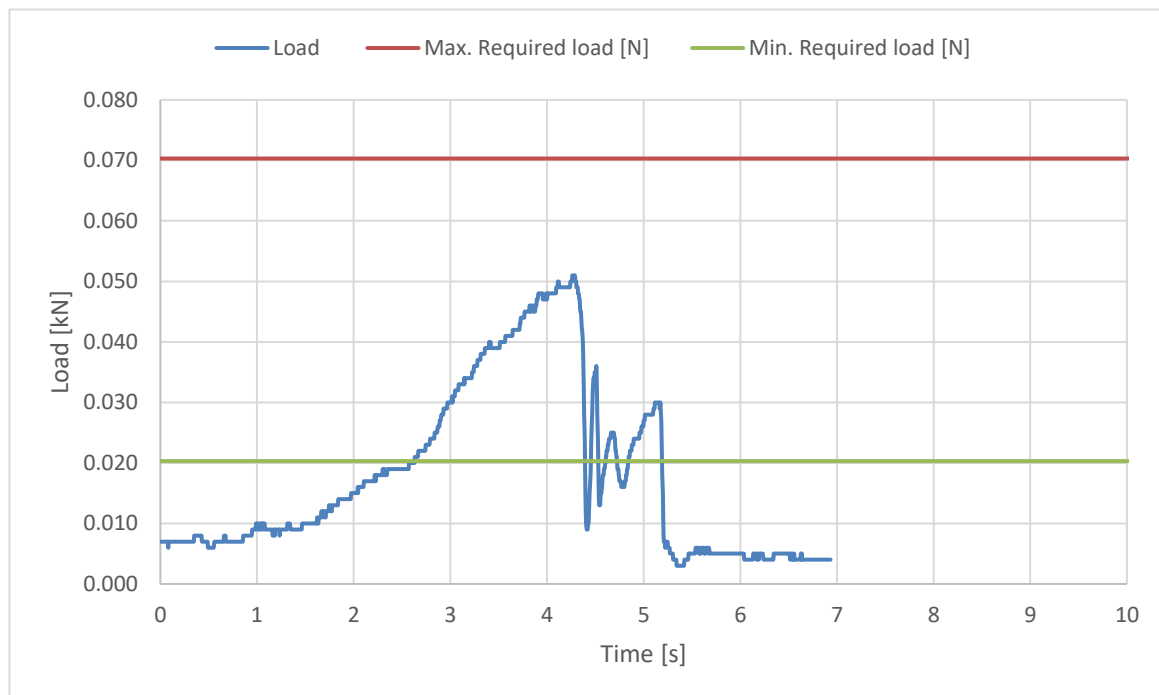
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model: **Gii 4 ALPHA L**

**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>50.69</b>
Test results	<b>POSITIVE</b>



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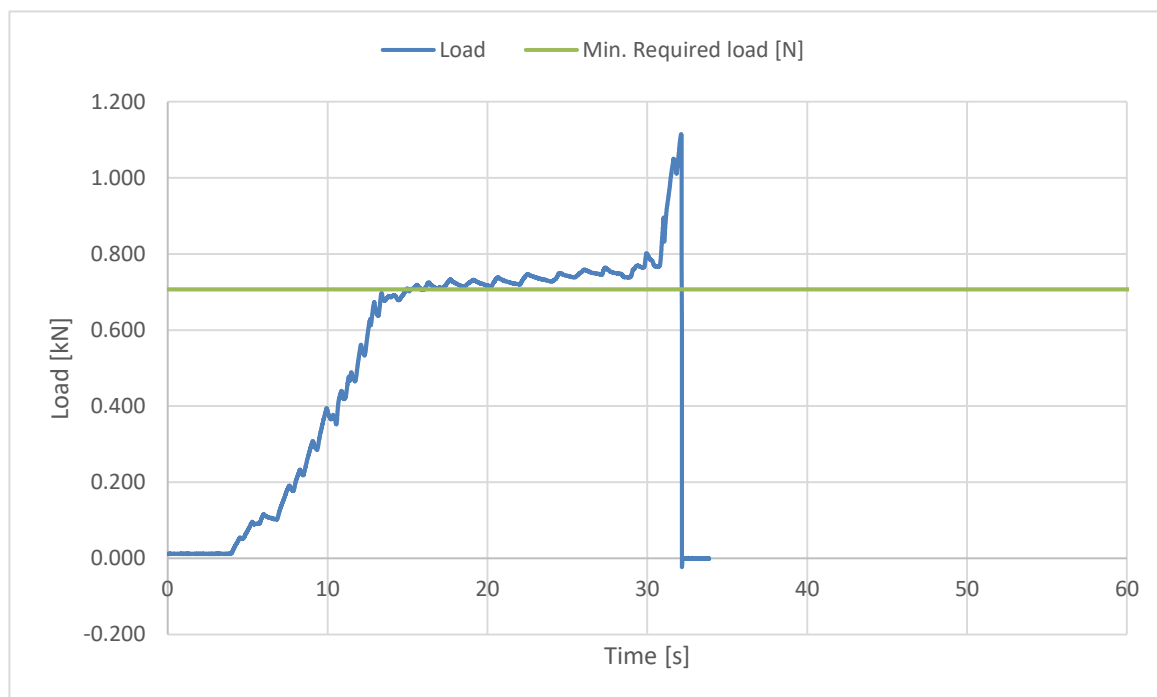
Inspection certificate number: **PH\_270.2019**

model: **Gii 4 ALPHA L**

**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>16.1</b>
Breaking strength [N]	<b>1108.30</b>
Test results	<b>POSITIVE</b>



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