

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

Test report summary

Structural test

Impact pad test

Result	POSITIVE	POSITIVE
Place	Villeneuve	Villeneuve
Date	13.05.2019	13.05.2019

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

⁽¹⁾ 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°]	20.3
RH [%]	40
[hPa]	980.6

Summary of Impact pad test ⁽¹⁾

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

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

⁽¹⁾ 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%.

⁽²⁾ 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.

⁽³⁾ Maximum peak of impact should be less or equal to 50 [g], ⁽⁴⁾ If any, the maximum duration in at 38 [g] should be less or equal to 7 [ms], ⁽⁵⁾ If any, the maximum duration in at 20 [g] should be less or equal to 25 [ms]. ⁽⁶⁾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.

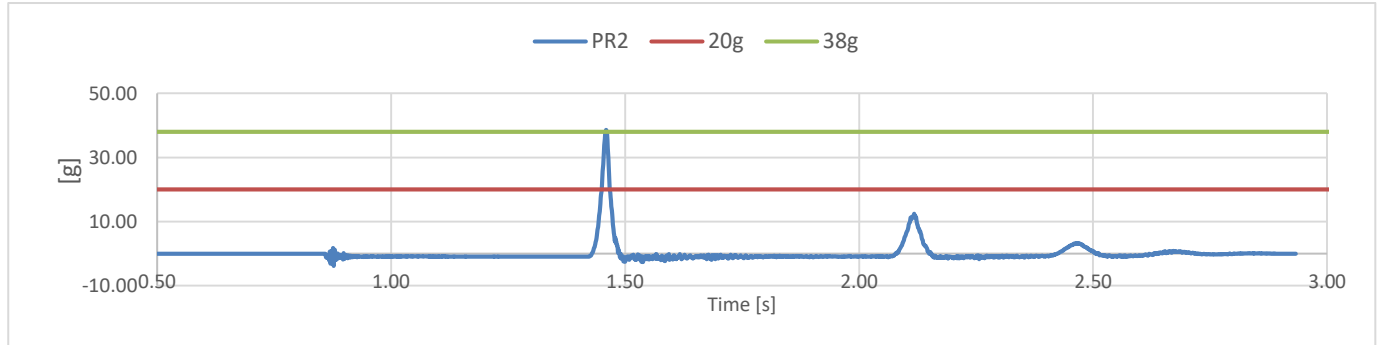
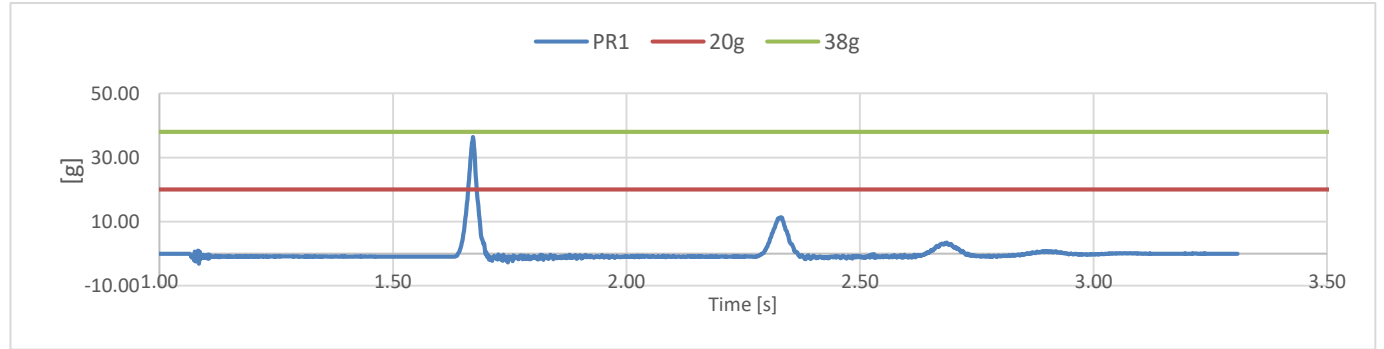
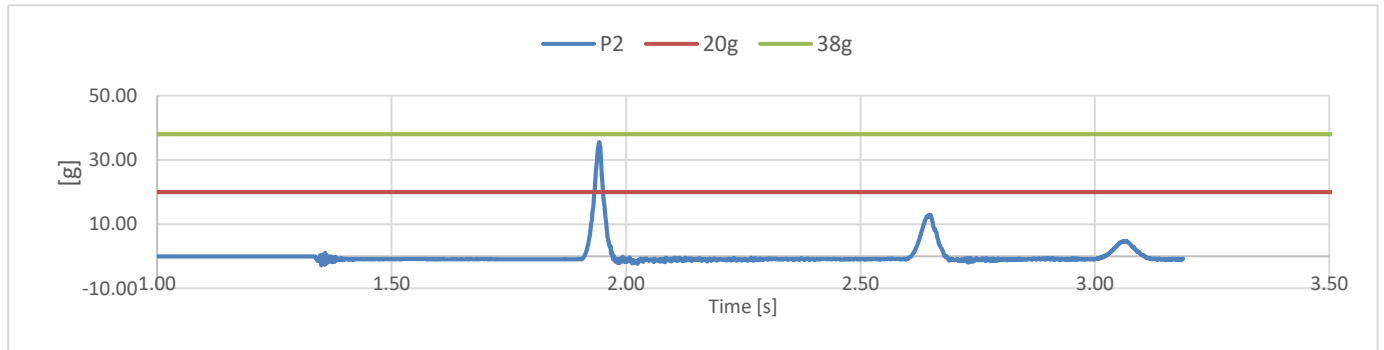
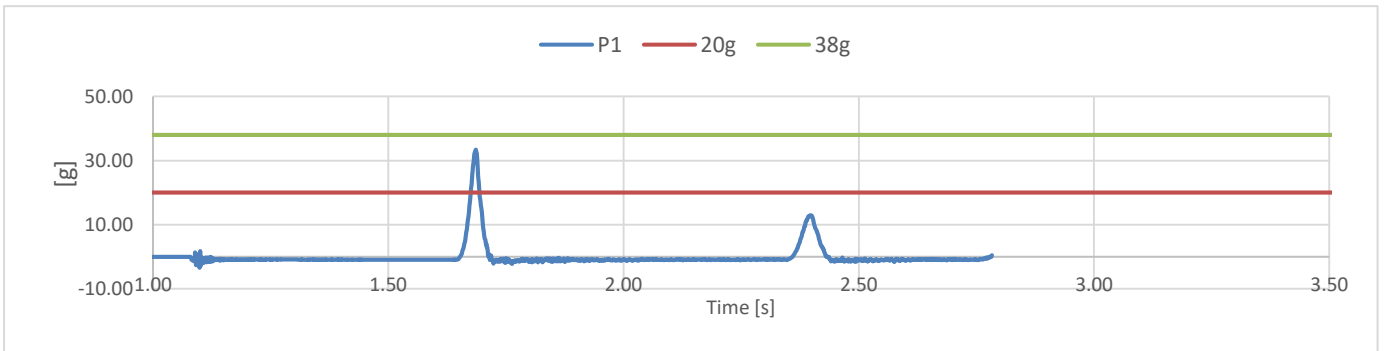
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Inspection certificate number: **PH_272.2019**

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]	35.44	37.69	38.59	40.98
Impact duration at +38 [g] in [ms]	0.00	0.00	0.00	3.33
Impact duration at +20 [g] in [ms]	18.33	19.17	17.50	17.50
Uncertainty k=2[g]	2.04	2.17	2.22	2.36
Difference of test 1 and 2 [%]	100.00	106.35	100.00	106.19



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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 [cm³] : **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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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 [cm³] : **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: ⁽¹⁾ **Foam**
 Clip-in weight [kg]: **120**

 Date of test: **13.05.2019**

Atmosphere AGL:

[C°]	20.3
RH [%]	40
[hPa]	980.6

Summary of Structural test

Test id	- EN 1651:2018	Setup	Req. Load		Min. duration [s]	Result
			[g]	Req. Load [N]		
01 ⁽³⁾	V 5.5.1.1	Positive symmetric load (Slippage)	4.5	5400	5	POSITIVE
03 ⁽³⁾	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 ⁽³⁾⁽⁴⁾	V 5.5.1.3	Positive symmetric load rescue points	15	18000	5	POSITIVE
10 ⁽³⁾⁽⁴⁾	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 ⁽³⁾	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 ⁽⁵⁾	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 [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. ⁽³⁾ 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. ⁽⁴⁾ For harness with integrated Y bridle, test in the end loop ⁽⁵⁾ 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

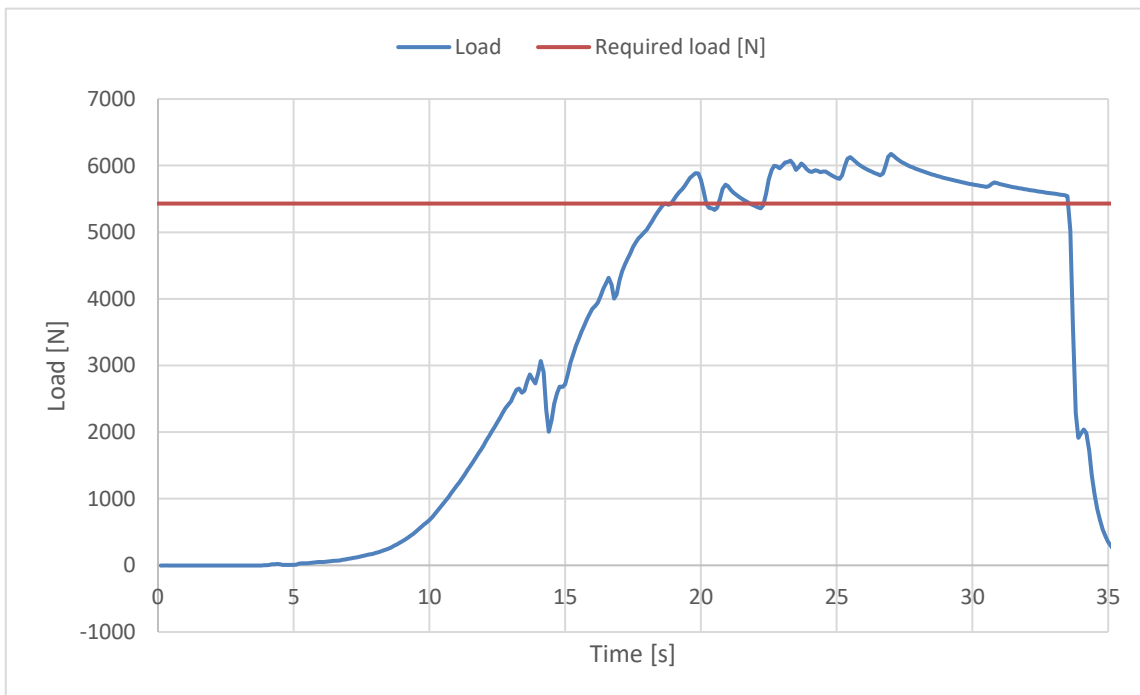
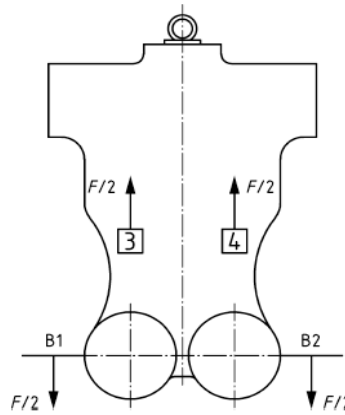
Test ID 01

Standard **EN 1651:2018**
 Reference in standard **5.5.1.1**
 Test setup **Positive symmetric load (Slippage)**
 Attachment points **Both main riser attachment (3,4)**
 Anchor points **Dummy (B1, B2)**

Required load [g] **4.5**
 Required load [N] **5400**
 Minimum test duration [s] **5**

Result

Test duration [s] **11.2**
 Any signs of structural failure **No**
 Slippery test OK **Yes**
 Test results **POSITIVE**



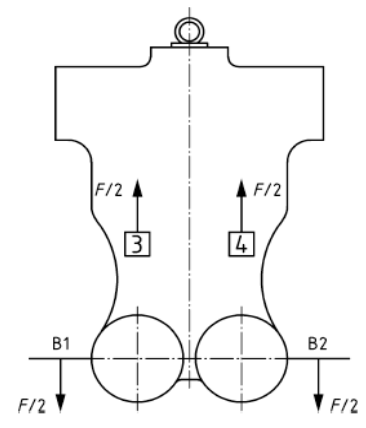
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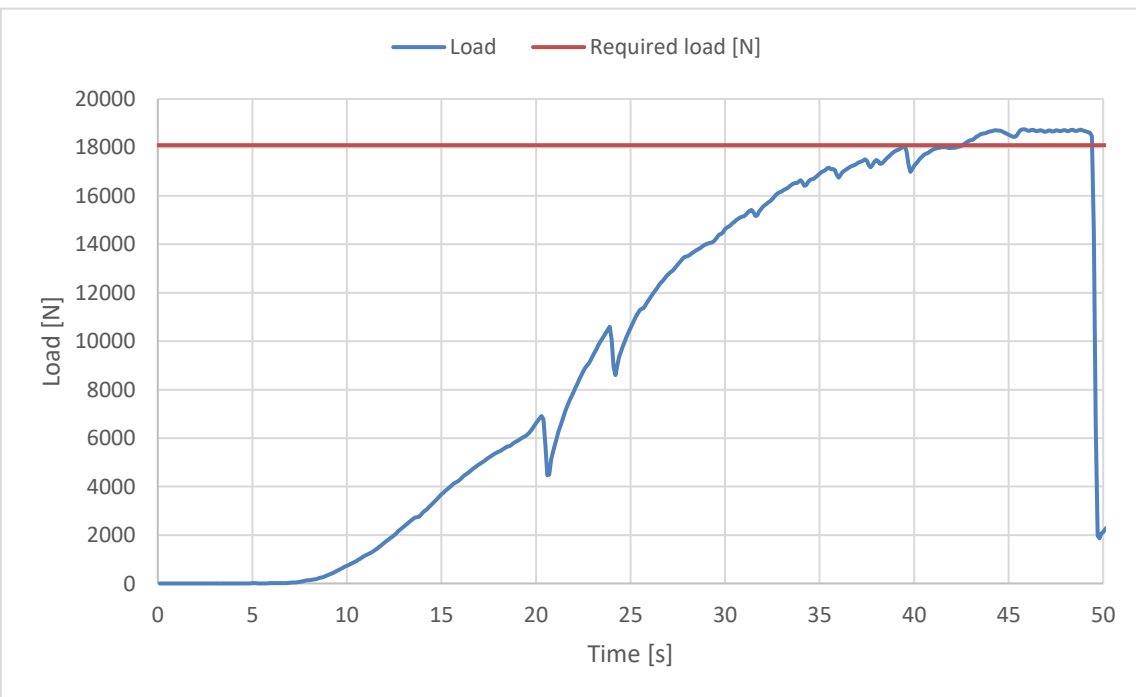
Inspection certificate number: **PH_272.2019**

model: **Skylighter 4**

Harness Structural test

Test ID 03

Standard	EN 1651:2018	
Reference in standard	5.5.1.1b	
Test setup	Positive symmetric load	
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	
Slippery test OK	Yes	
Test results	POSITIVE	



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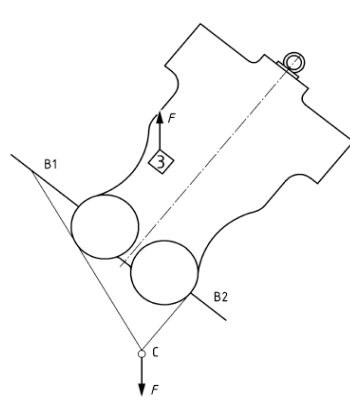
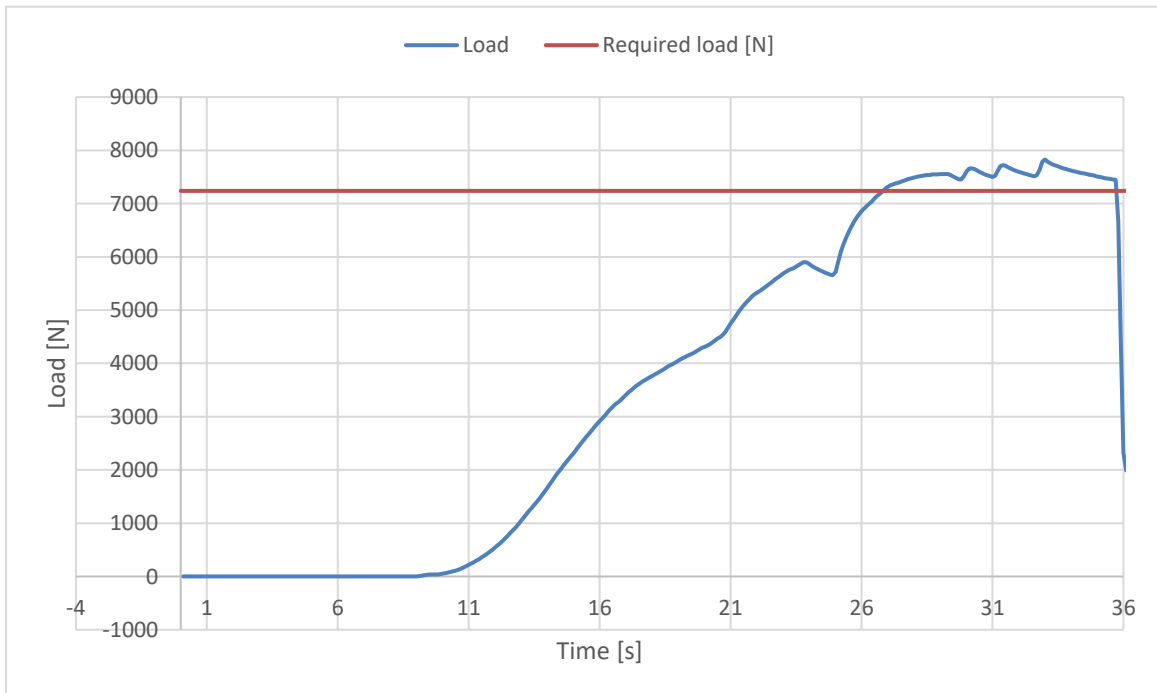
Inspection certificate number: **PH_272.2019**

model: **Skylighter 4**

Harness Structural test

Test ID 05

Standard	EN 1651:2018
Reference in standard	5.5.1.2
Test setup	Positive asymmetric load
Attachment points	One riser attachment (3 or 4)
Anchor points	Dummy (C)
Required load [g]	6
Required load [N]	7200
Minimum test duration [s]	5
Result	
Test duration [s]	8.9
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

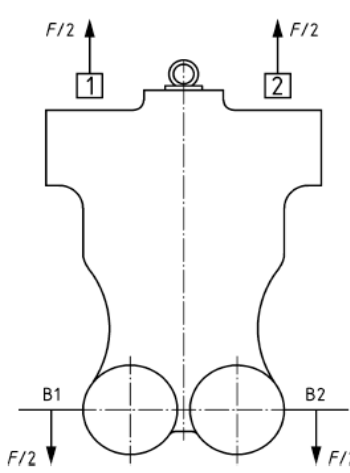
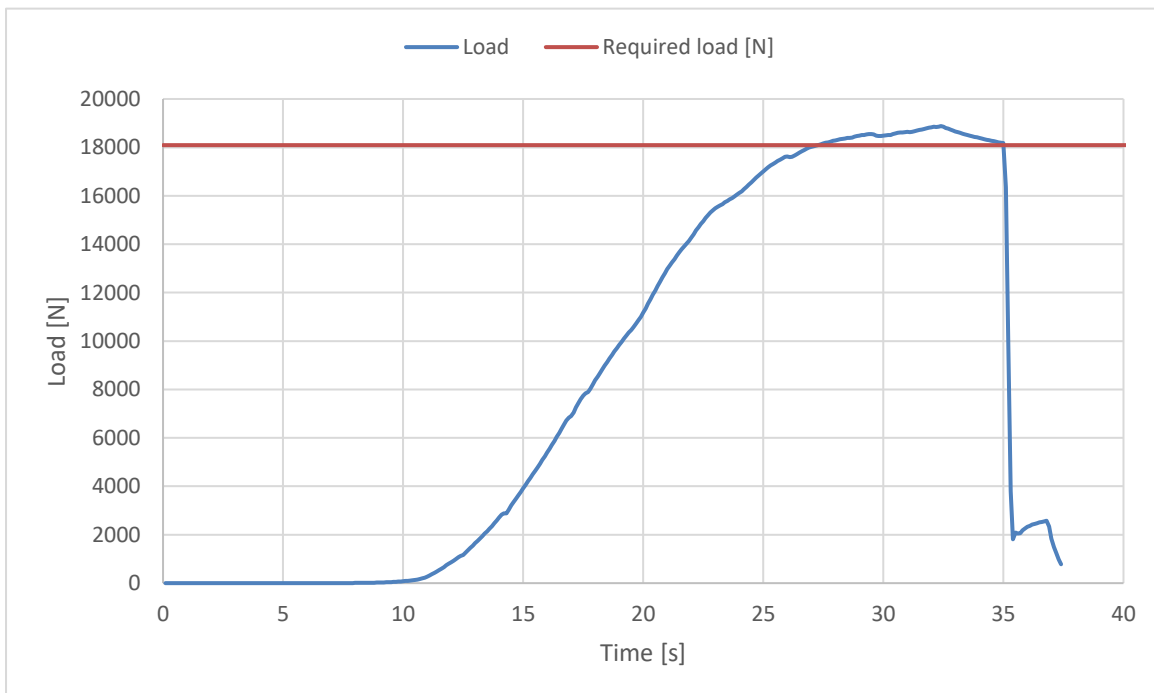
Inspection certificate number: **PH_272.2019**

model: **Skylighter 4**

Harness Structural test

Test ID 09

Standard	EN 1651:2018
Reference in standard	5.5.1.3
Test setup	Positive symmetric load rescue points
Attachment points	Both main 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
Slippery test OK	Yes
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

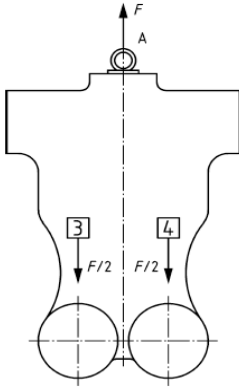
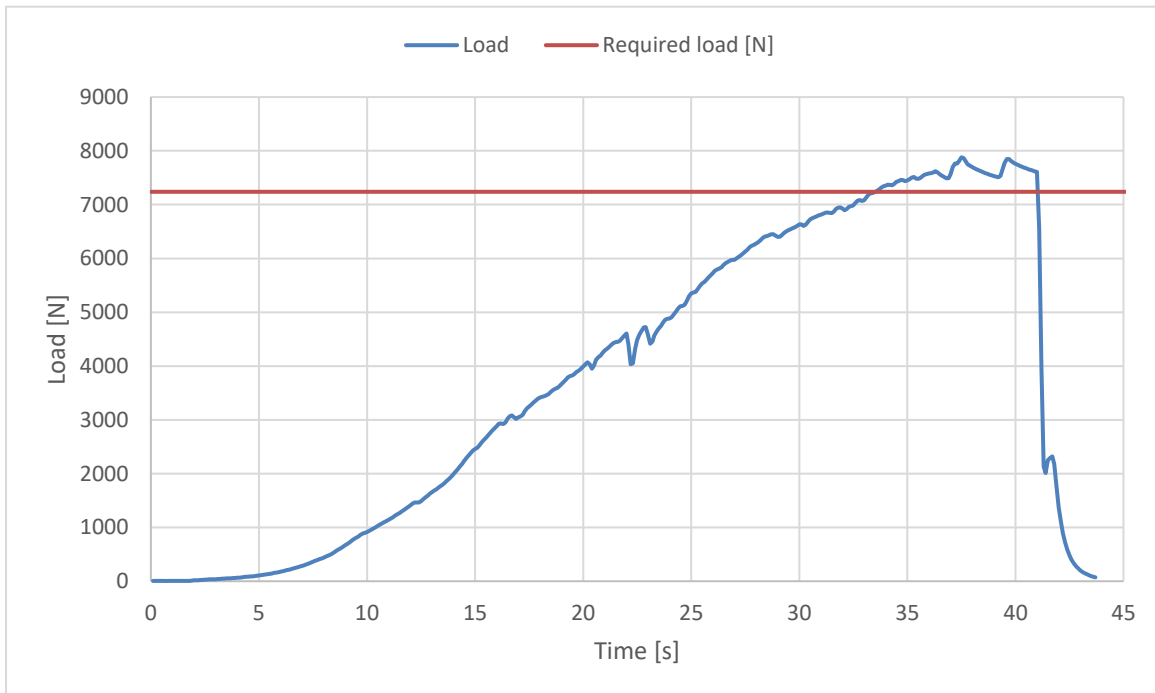
Inspection certificate number: **PH_272.2019**

model: **Skylighter 4**

Harness Structural test

Test ID 06

Standard	EN 1651:2018
Reference in standard	5.5.1.6
Test setup	Negative symmetric load
Attachment points	Both main riser attachment (3,4)
Anchor points	Dummy (A)
Required load [g]	6
Required load [N]	7200
Minimum test duration [s]	5
Result	
Test duration [s]	7.5
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

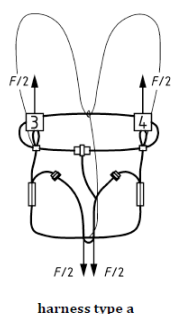
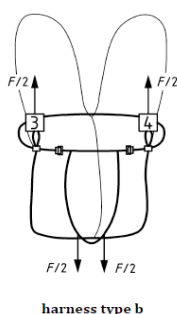
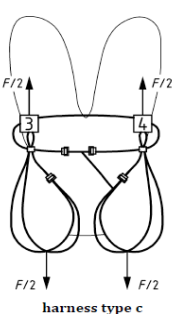
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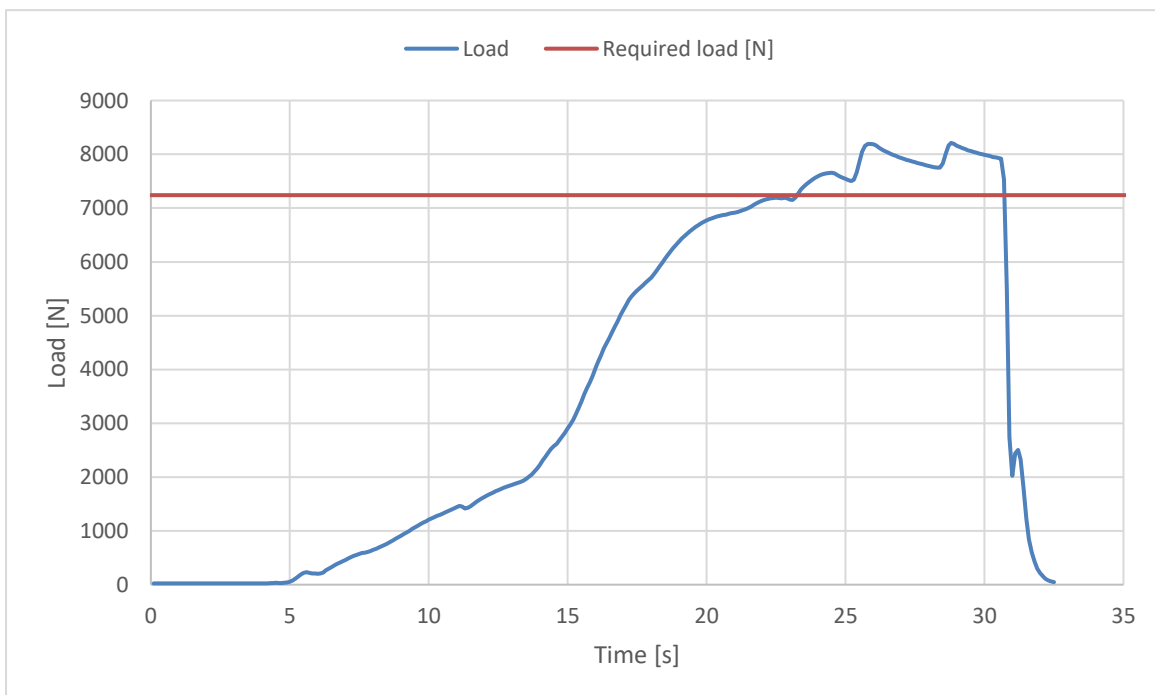
model: **Skylighter 4**

Harness Structural test

Test ID 12

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



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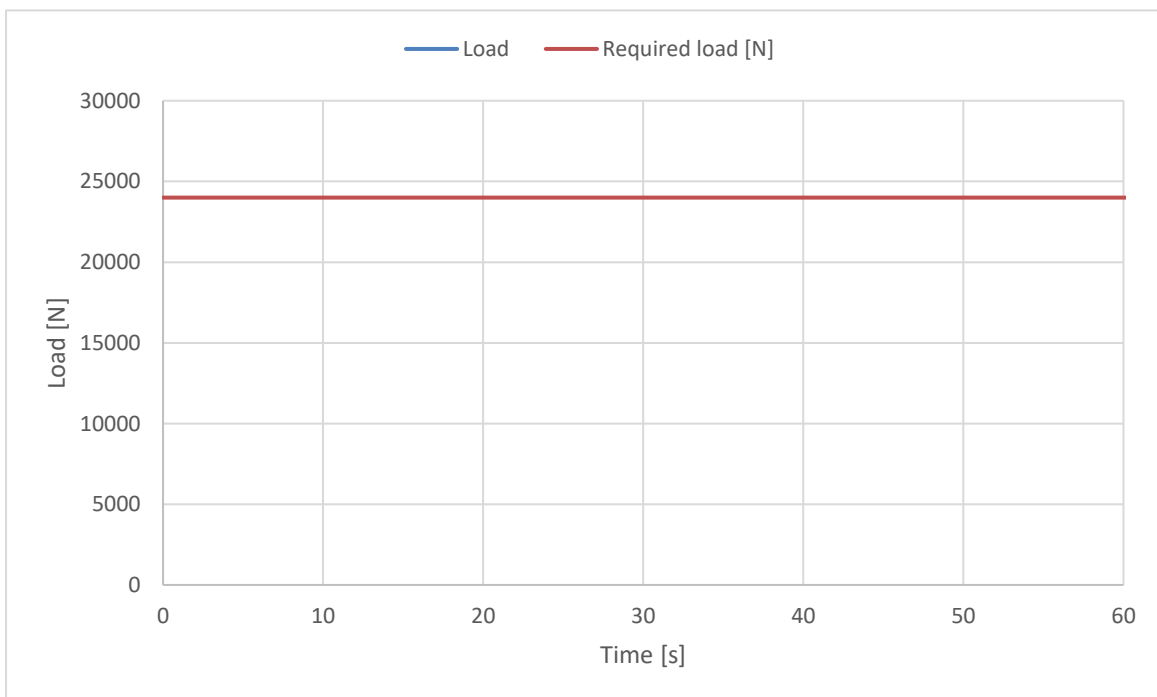
Inspection certificate number: **PH_272.2019**

model: **Skylighter 4**

Harness Structural test

Test ID 11

Standard	EN 1651:2018
Reference in standard	5.5.1.8
Test setup	Connecting element for rescue
Attachment points	End point (emergency parachute)
Anchor points	Both attachment to harness
Required load [g]	n/a
Required load [N]	24000
Minimum test duration [s]	0.3
Type of connecting element	n/a
Result	
Test duration [s]	0
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

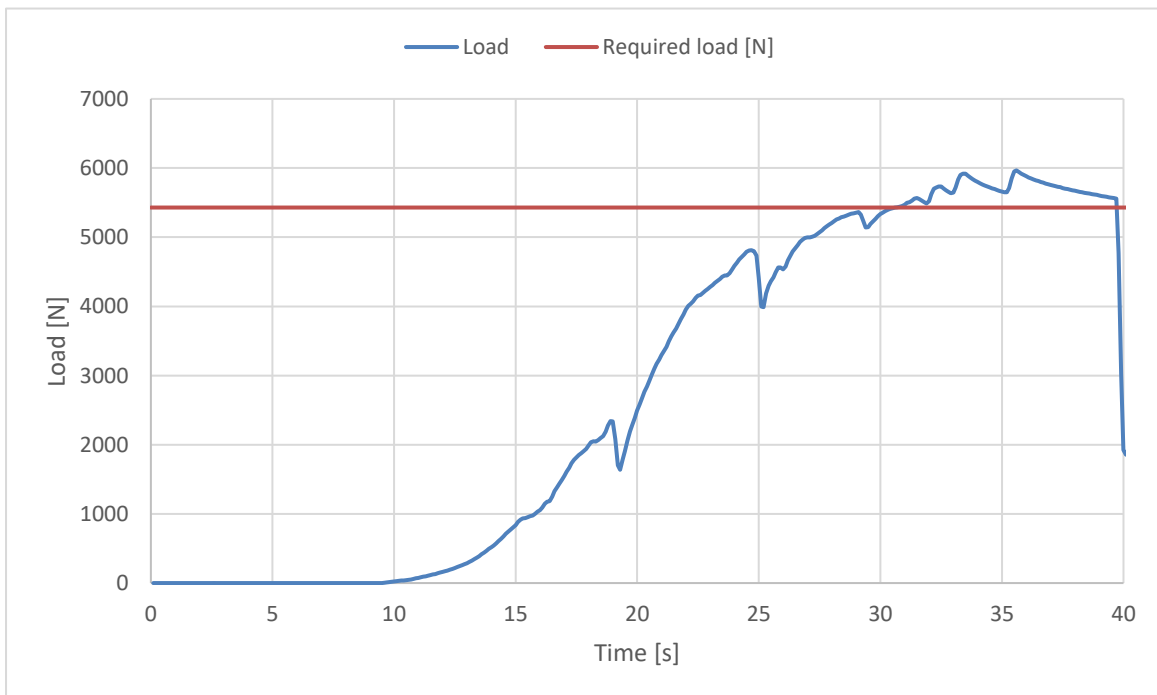
Inspection certificate number: **PH_272.2019**

model: **Skylighter 4**

Harness Structural test

Test ID 08

Standard	EN 1651:2018
Reference in standard	5.5.1.9
Test setup	Anti falling-out system
Attachment points	Around anti falling-out system
Anchor points	Both main riser attachment (no dummy)
Required load [g]	4.5
Required load [N]	5400
Minimum test duration [s]	5
Result	
Test duration [s]	9.1
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

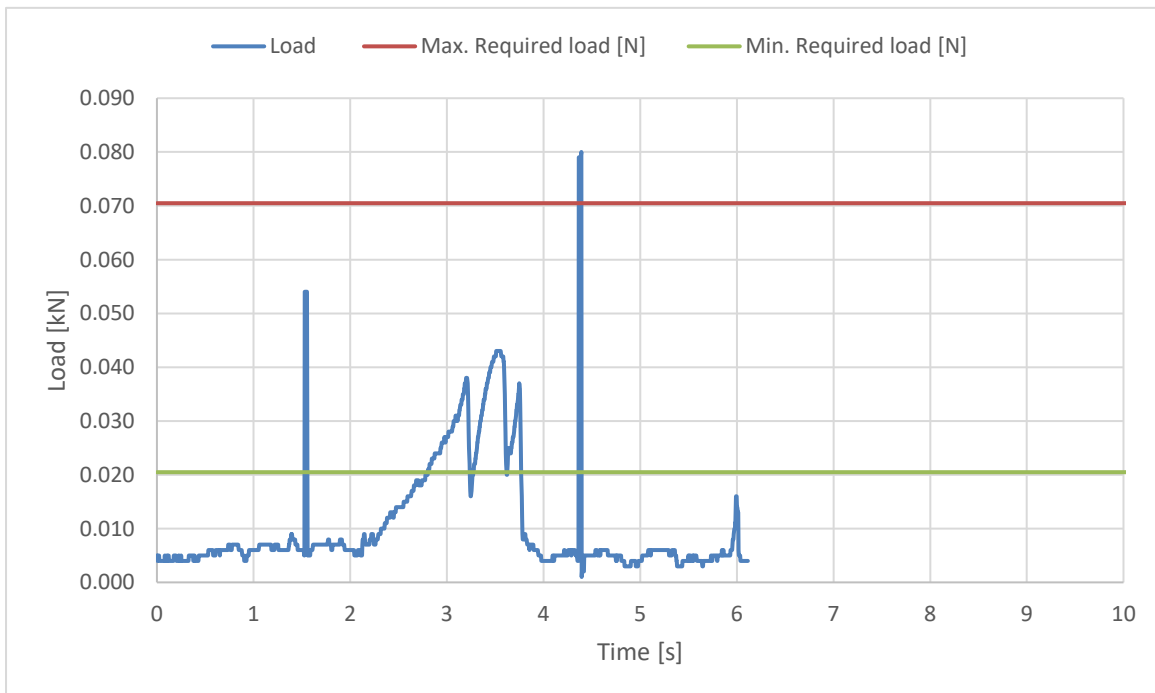
Inspection certificate number: **PH_272.2019**

model: **Skylighter 4**

Rescue Deployment Test

Test ID RRDT

Standard	LTF NfL II 91/09
Reference in standard	6.1.5
Test setup	Default flying position
Attachment points	Sensor connect to handle, and pull in opening direction
	The test is to simulate the load required to open the emergency parachute(1st action).
Min. Required load [N]	20
Max. Required load [N]	70
Result	
Load for first action [N]	79.52
Test results	POSITIVE



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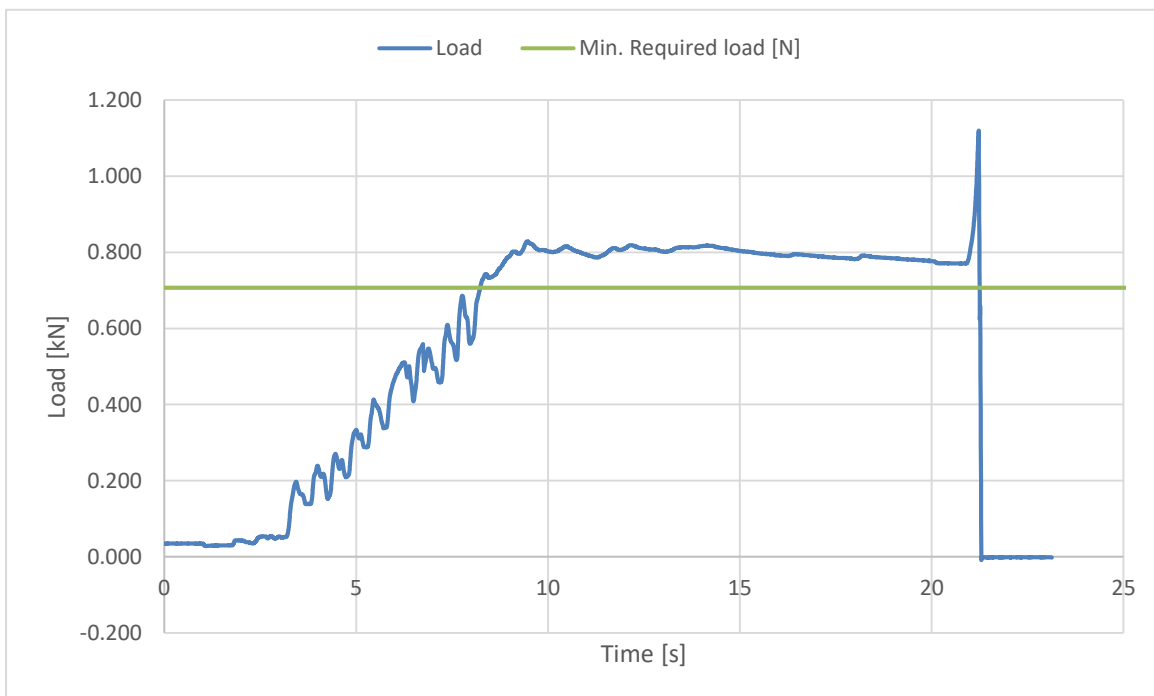
Inspection certificate number: **PH_272.2019**

model: **Skylighter 4**

Rescue Deployment Handle strength test

Test ID RRST

Standard	EN12491:2015
Reference in standard	5.3.2
Test setup	Two end points of handle
Attachment points	Sensor connect to end of handle, pull on the other side
	The handle must support min 700 N for 10 s, after measure breaking strength
Min. Required load [N]	700
Minimum test duration [s]	10
Result	
Test duration [s]:	12.8
Breaking strength [N]	1113.27
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

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: ⁽¹⁾ **Foam**
 Clip-in weight [kg]: **120**

Date of test: **13.05.2019**

Atmosphere AGL:

[C°]	20.3
RH [%]	40
[hPa]	980.6

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

⁽¹⁾ 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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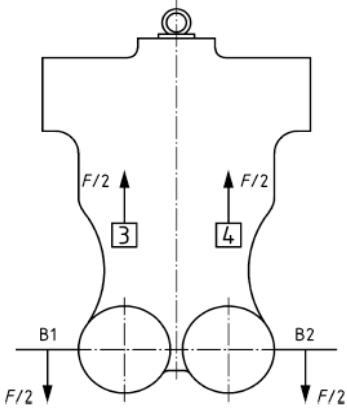
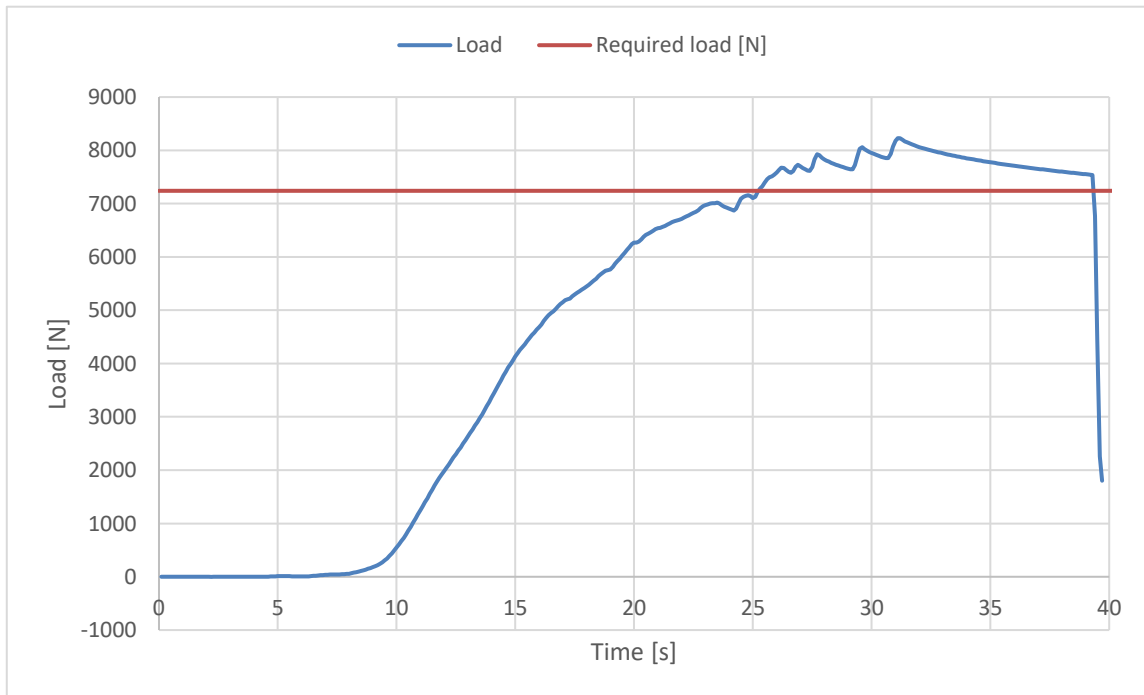
Inspection certificate number: **PH_272.2019**

model: **Skylighter 4**

Harness Structural test

Test ID 02

Standard	EN 1651:1999
Reference in standard	5.3.2.1
Test setup	Default flying position
Attachment points	Both main riser attachment (3,4)
Anchor points	Dummy (B1, B2)
Required load [g]	6
Required load [N]	7200
Minimum test duration [s]	10
Result	
Test duration [s]	14.1
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

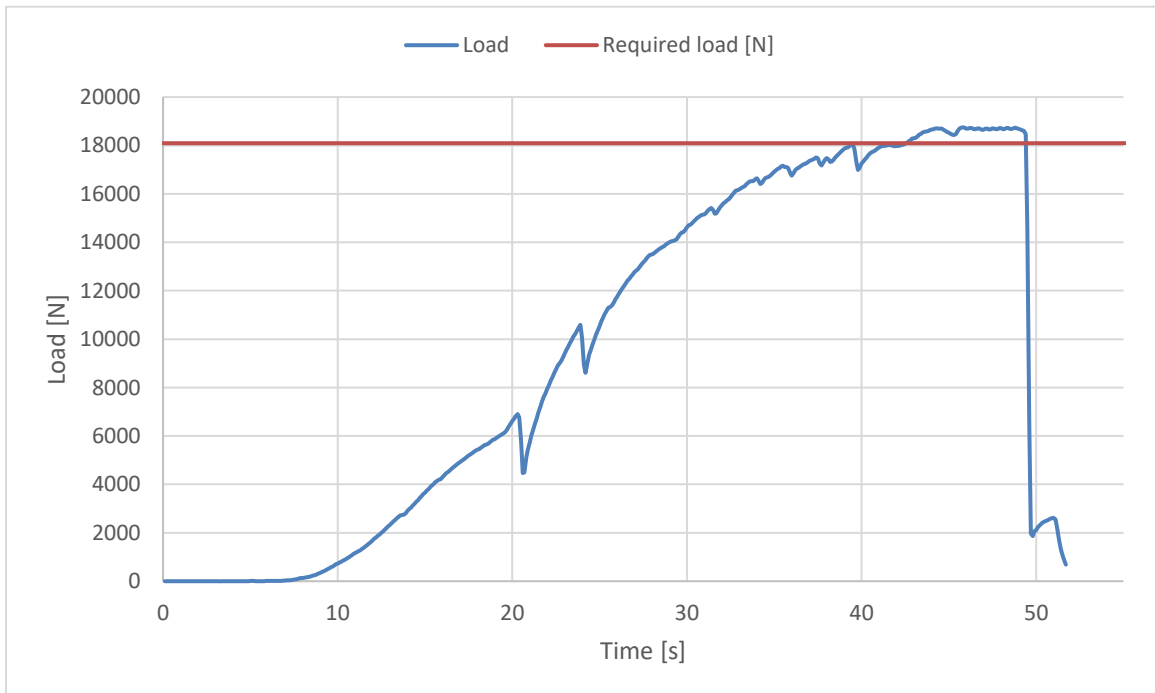
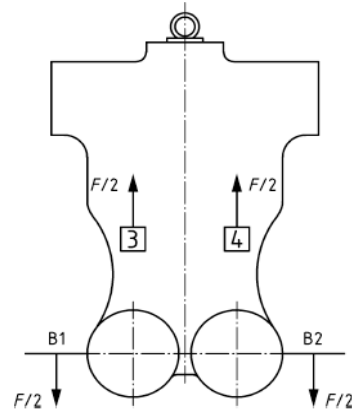
Test ID 03

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

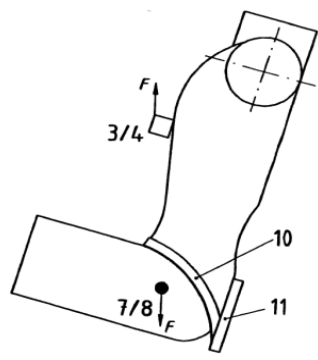
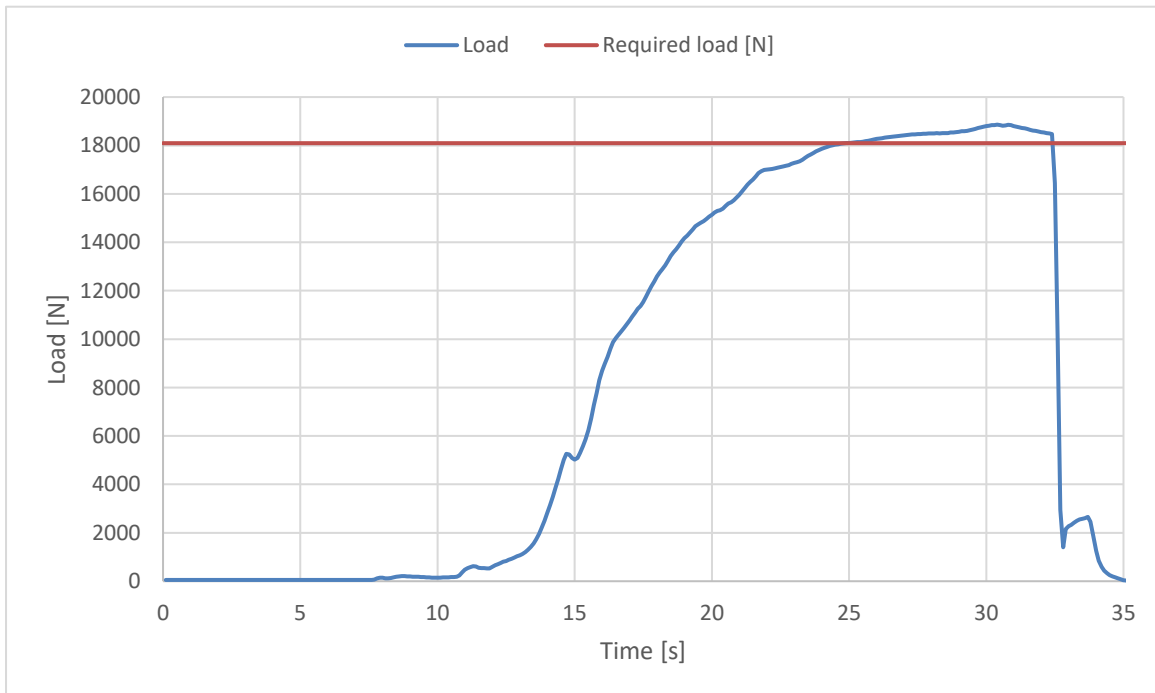
Inspection certificate number: **PH_272.2019**

model: **Skylighter 4**

Harness Structural test

Test ID 13

Standard	EN 1651:1999
Reference in standard	5.3.2.7
Test setup	Flying position before landing
Attachment points	Both main riser attachment (3,4)
Anchor points	Dummy (7,8)
Required load [g]	15
Required load [N]	18000
Minimum test duration [s]	5
Result	
Test duration [s]	7.6
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

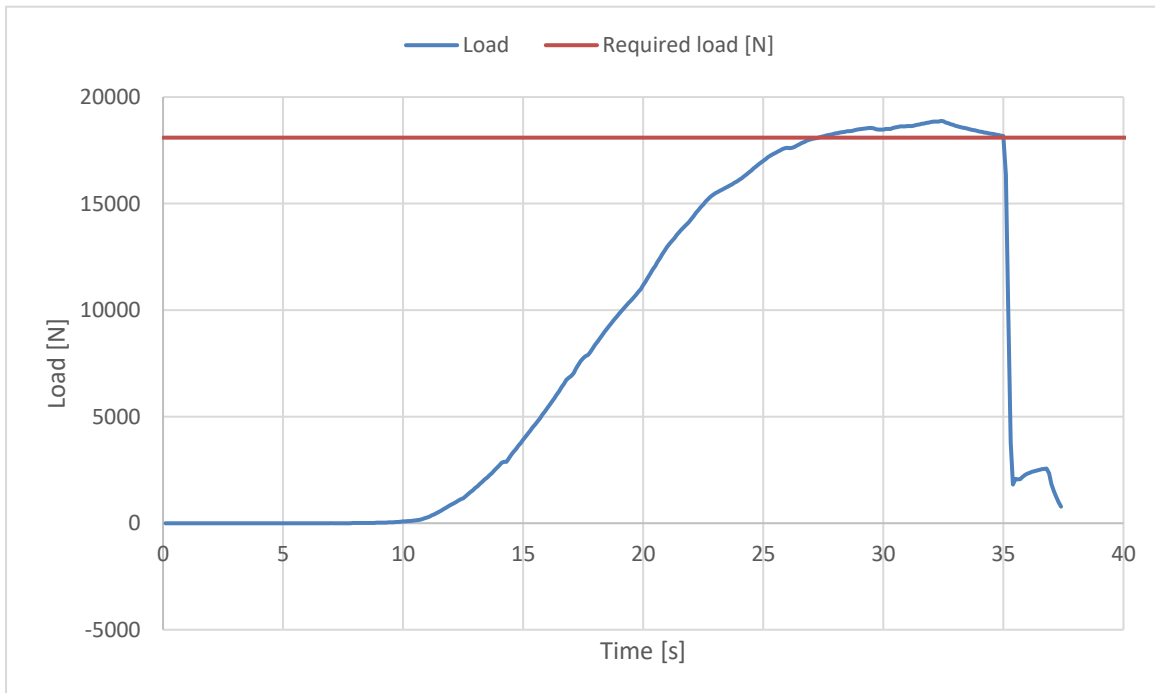
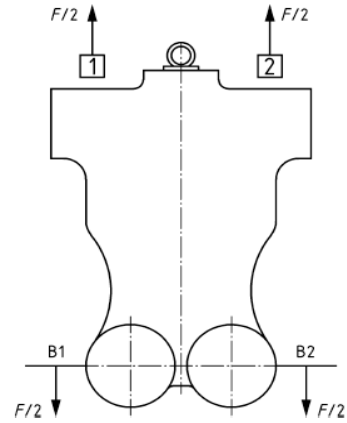
Test ID 09

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**



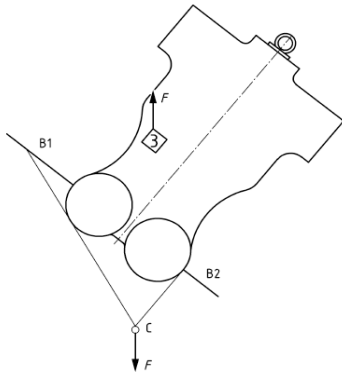
The validation of this test report is given by the signature of the test manager on the Inspection Certificate no 94.20

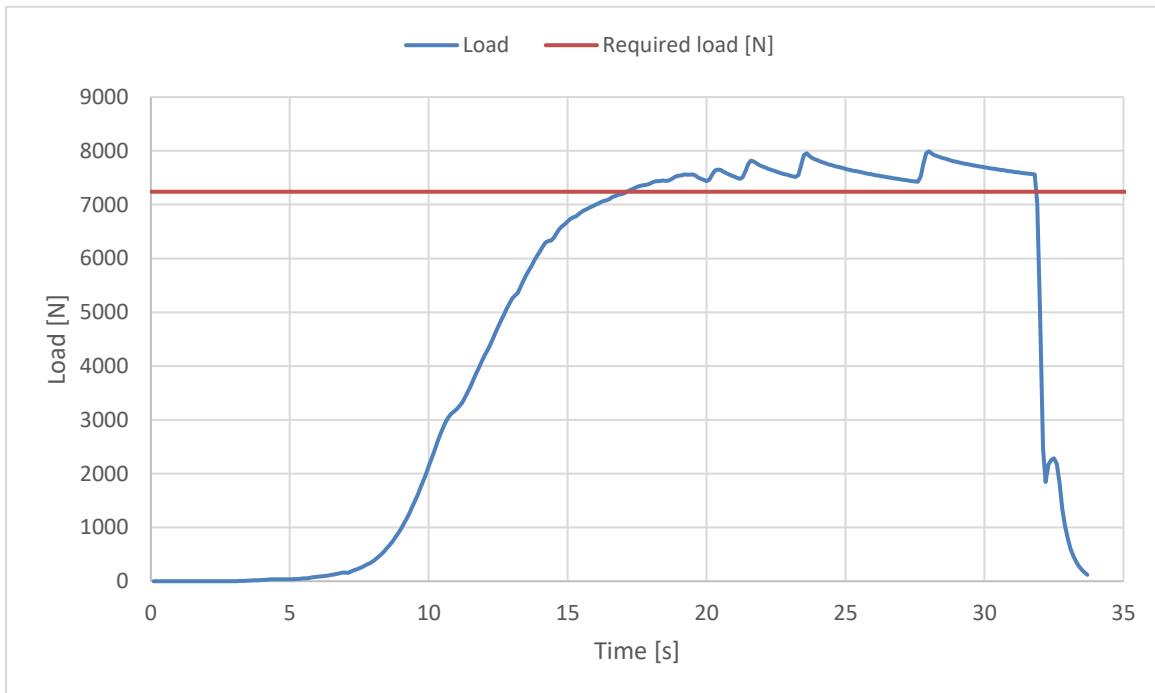
Inspection certificate number: **PH_272.2019**

model: **Skylighter 4**

Harness Structural test

Test ID 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	



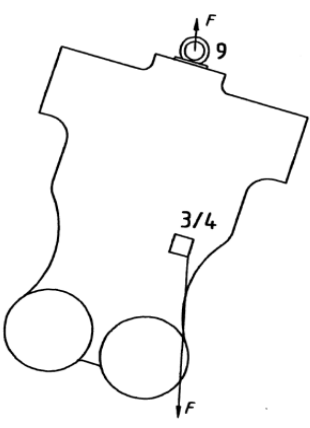
The validation of this test report is given by the signature of the test manager on the Inspection Certificate no 94.20

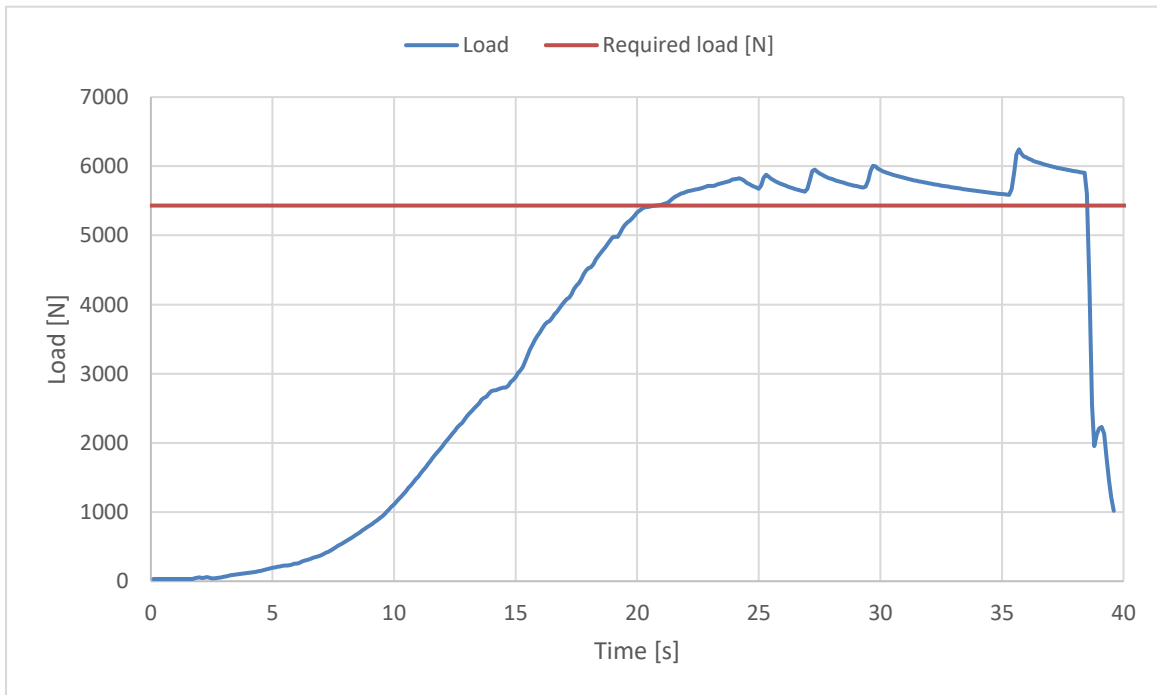
Inspection certificate number: **PH_272.2019**

model: **Skylighter 4**

Harness Structural test

Test ID 07

Standard	EN 1651:1999	
Reference in standard	5.3.2.6	
Test setup	Asymmetric, negative	
Attachment points	One main riser attachment (3 or 4) downwards	
Anchor points	Dummy (9)	
Required load [g]	4.5	
Required load [N]	5400	
Minimum test duration [s]	10	
Result		
Test duration [s]	17.8	
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

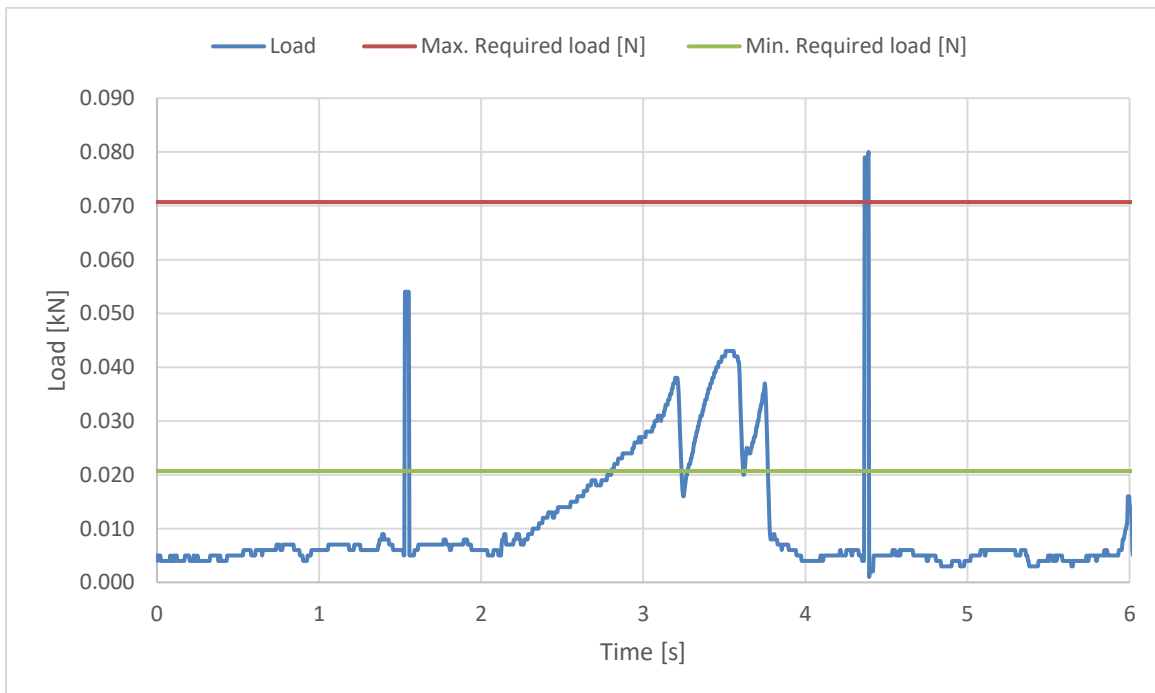
Inspection certificate number: **PH_272.2019**

model: **Skylighter 4**

Rescue Deployment Test

Test ID RRDT

Standard	LTF NfL II 91/09
Reference in standard	6.1.5
Test setup	Default flying position
Attachment points	Sensor connect to handle, and pull in opening direction
	The test is to simulate the load required to open the emergency parachute(1st action).
Min. Required load [N]	20
Max. Required load [N]	70
Result	
Load for first action [N]	79.31
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

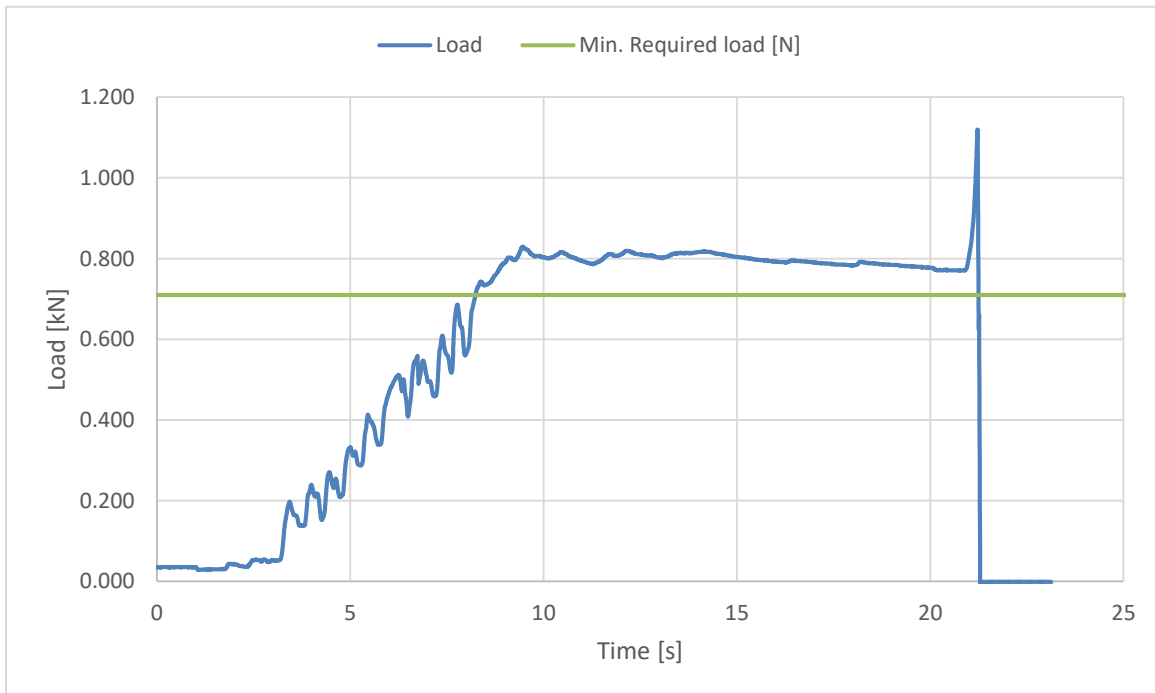
Inspection certificate number: **PH_272.2019**

model: **Skylighter 4**

Rescue Deployment Handle strength test

Test ID RRST

Standard	EN12491:2015
Reference in standard	5.3.2
Test setup	Two end points of handle
Attachment points	Sensor connect to end of handle, pull on the other side
	The handle must support min 700 N for 10 s, after measure breaking strength
Min. Required load [N]	700
Minimum test duration [s]	10
Result	
Test duration [s]:	12.8
Breaking strength [N]	1110.29
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