

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

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

[C°]	20.7
RH [%]	35
[hPa]	960

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	50.69	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	1108.30	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_270.2019**

model: **Gii 4 ALPHA L**

Harness Structural test

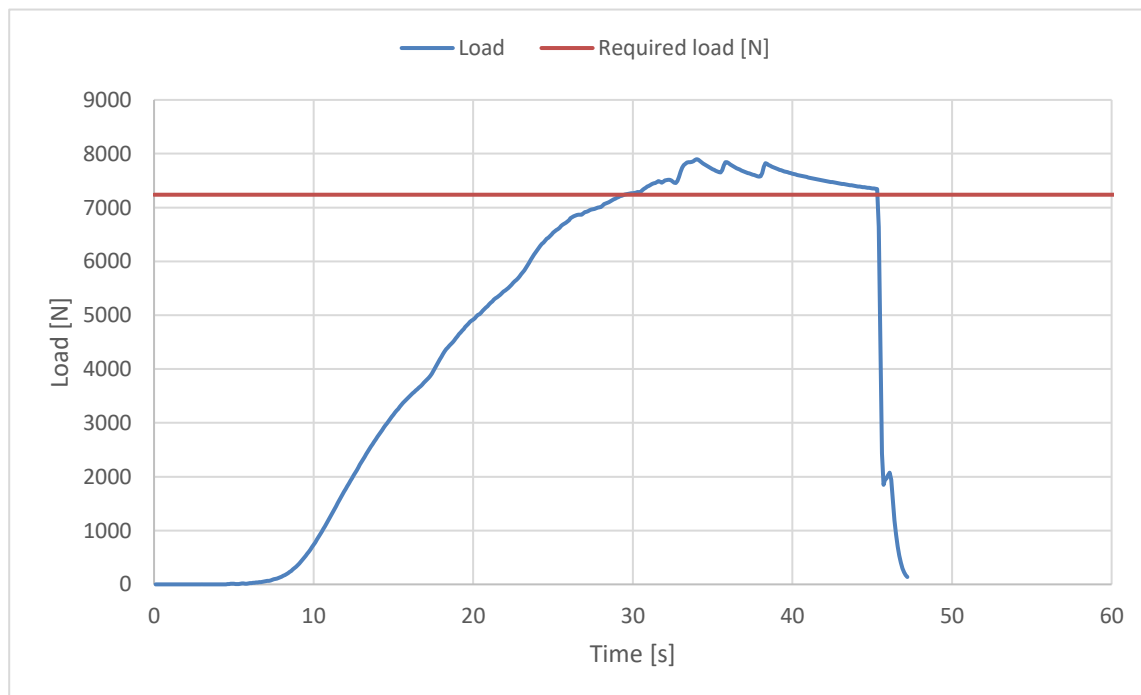
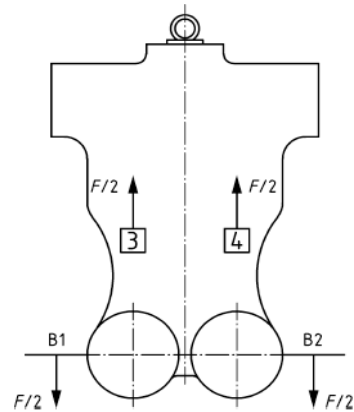
Test ID R0

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] **15.9**
Any signs of structural failure **No**
Test results **POSITIVE**



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Inspection certificate number: **PH_270.2019**

model: **Gii 4 ALPHA L**

Harness Structural test

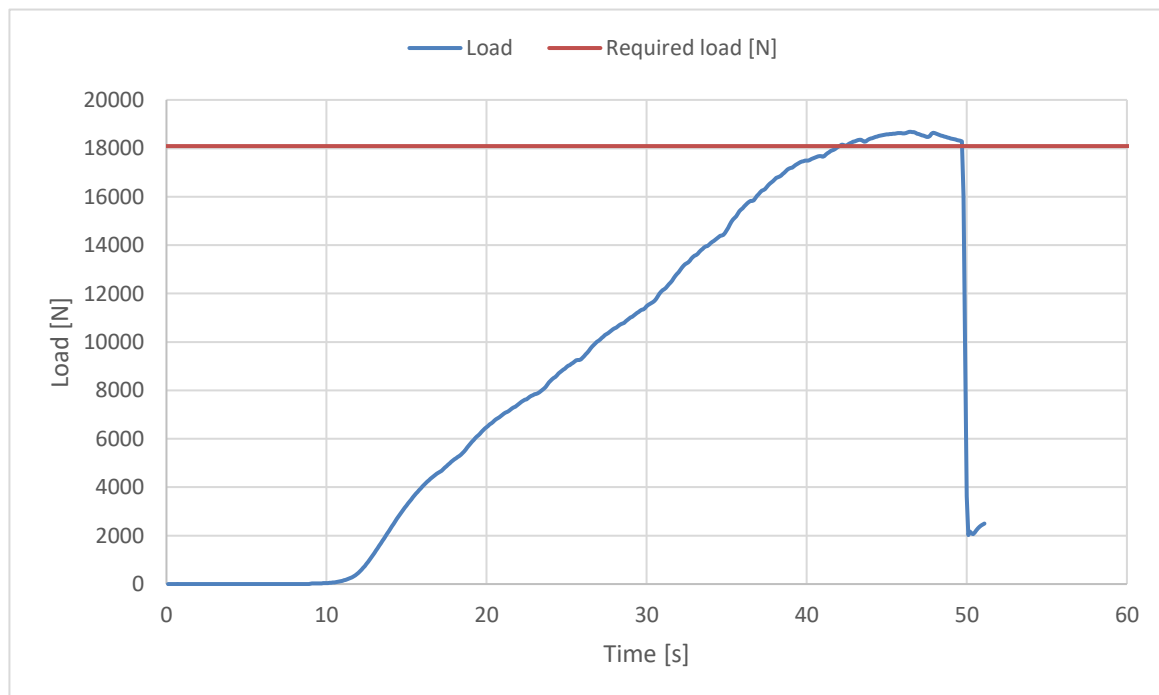
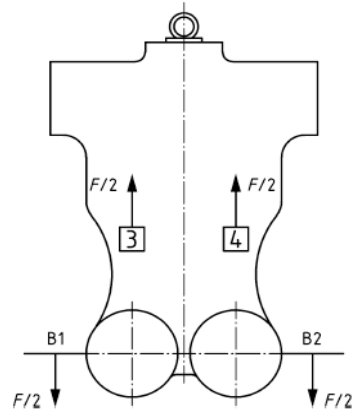
Test ID R2

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] **7.7**
Any signs of structural failure **No**
Test results **POSITIVE**



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Inspection certificate number: **PH_270.2019**

model: **Gii 4 ALPHA L**

Harness Structural test

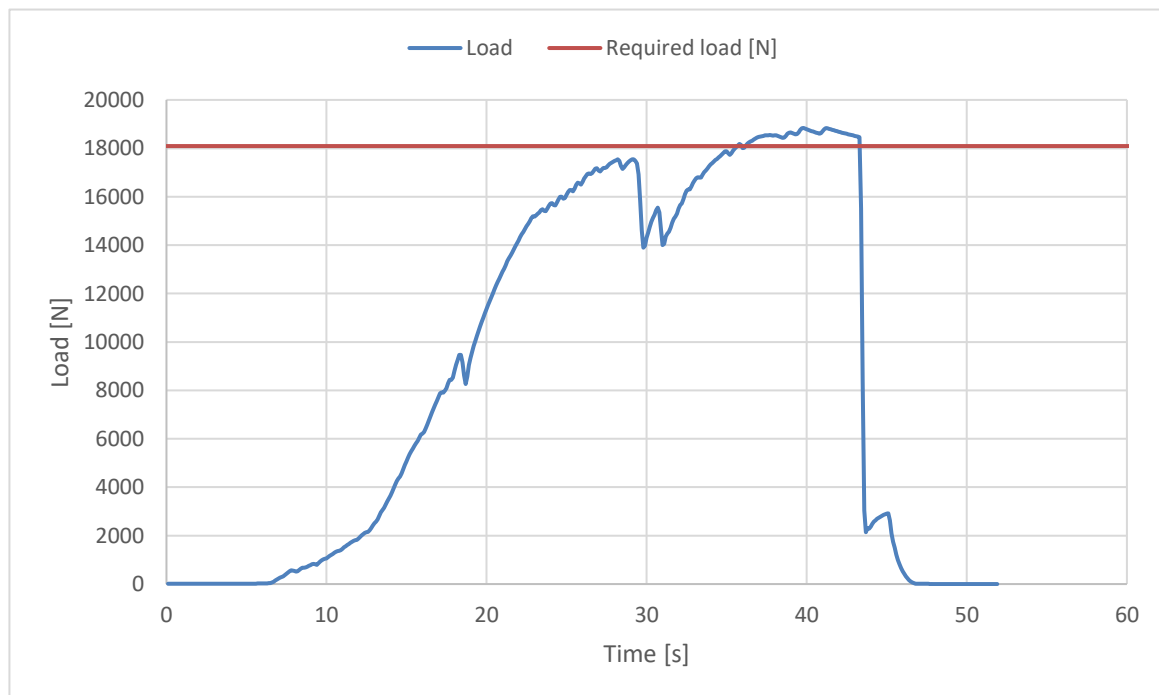
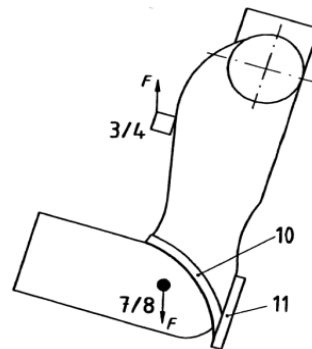
Test ID R4

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] **7.2**
Any signs of structural failure **No**
Test results **POSITIVE**



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model: **Gii 4 ALPHA L**

Harness Structural test

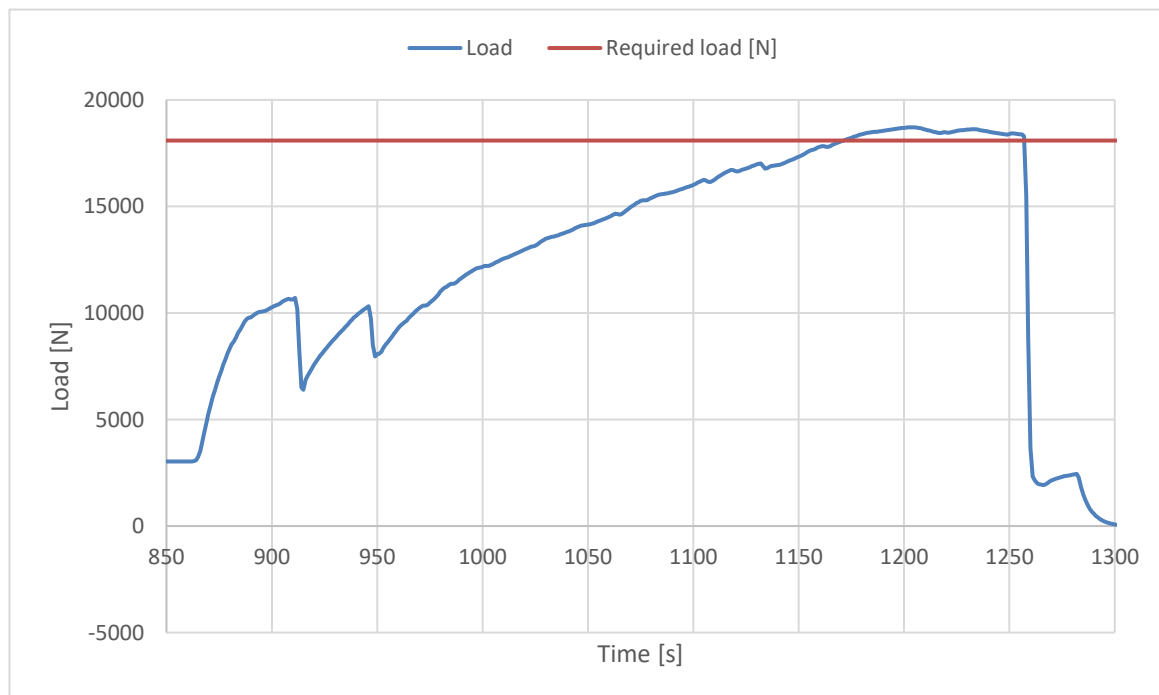
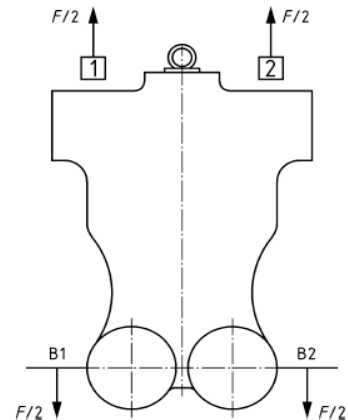
Test ID R6

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] **8.6**
Any signs of structural failure **No**
Test results **POSITIVE**



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model: **Gii 4 ALPHA L**

Harness Structural test

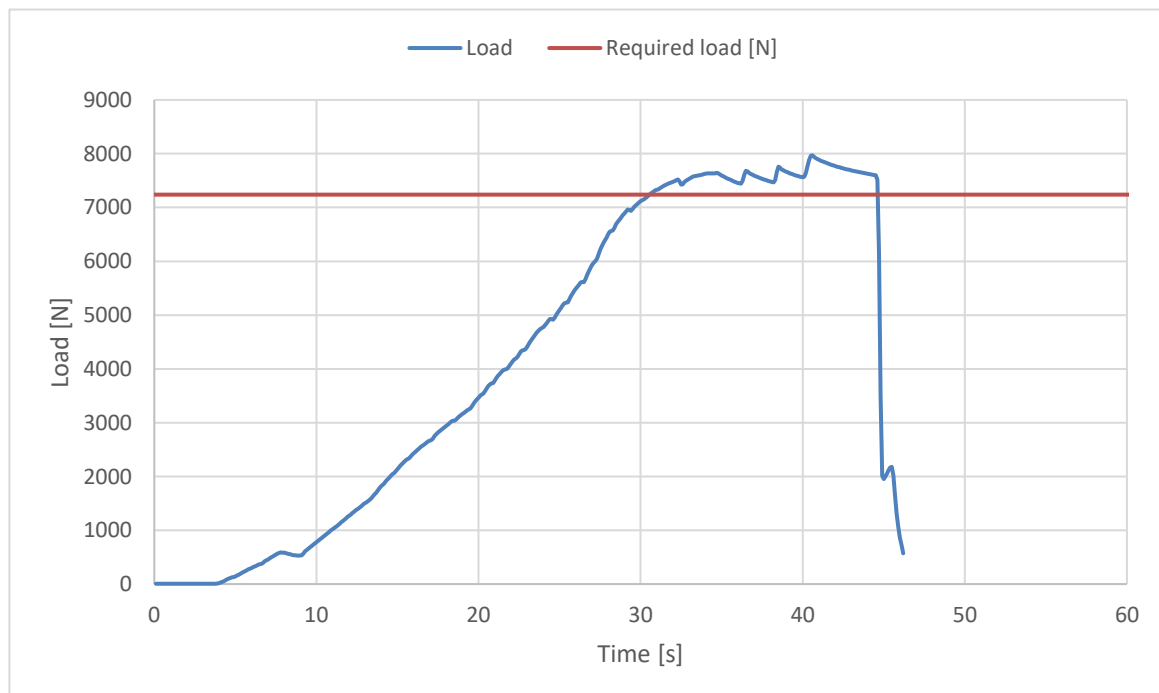
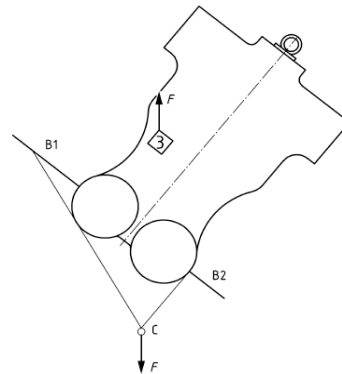
Test ID R8

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] **14.1**
Any signs of structural failure **No**
Test results **POSITIVE**



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Inspection certificate number: **PH_270.2019**

model: **Gii 4 ALPHA L**

Harness Structural test

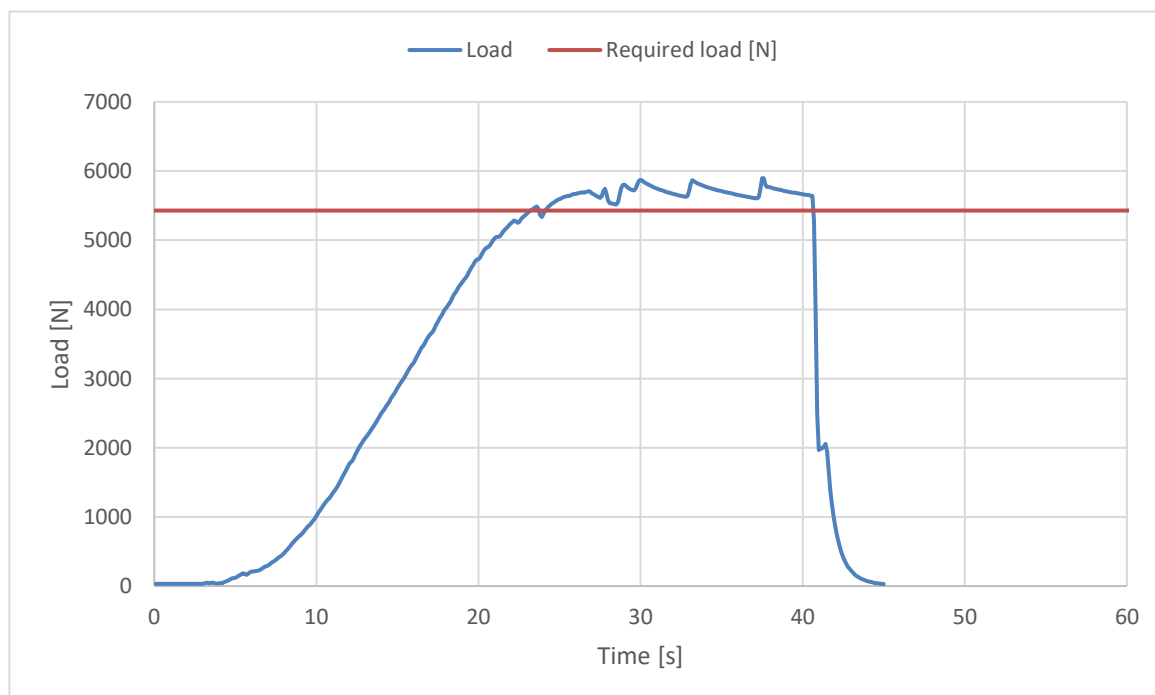
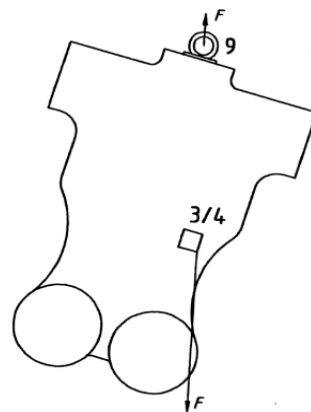
Test ID R10

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

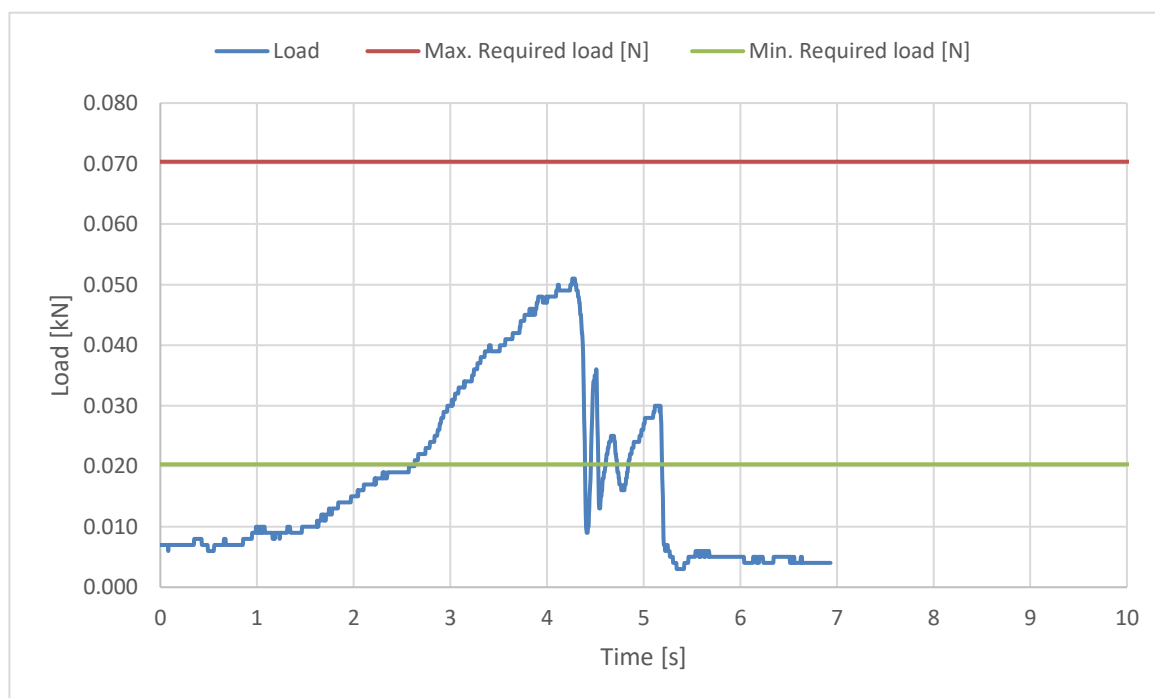
Test duration [s] **16.5**
Any signs of structural failure **No**
Test results **POSITIVE**



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Inspection certificate number: **PH_270.2019**model: **Gii 4 ALPHA L****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]	50.69
Test results	POSITIVE



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Inspection certificate number: **PH_270.2019**

model: **Gii 4 ALPHA L**

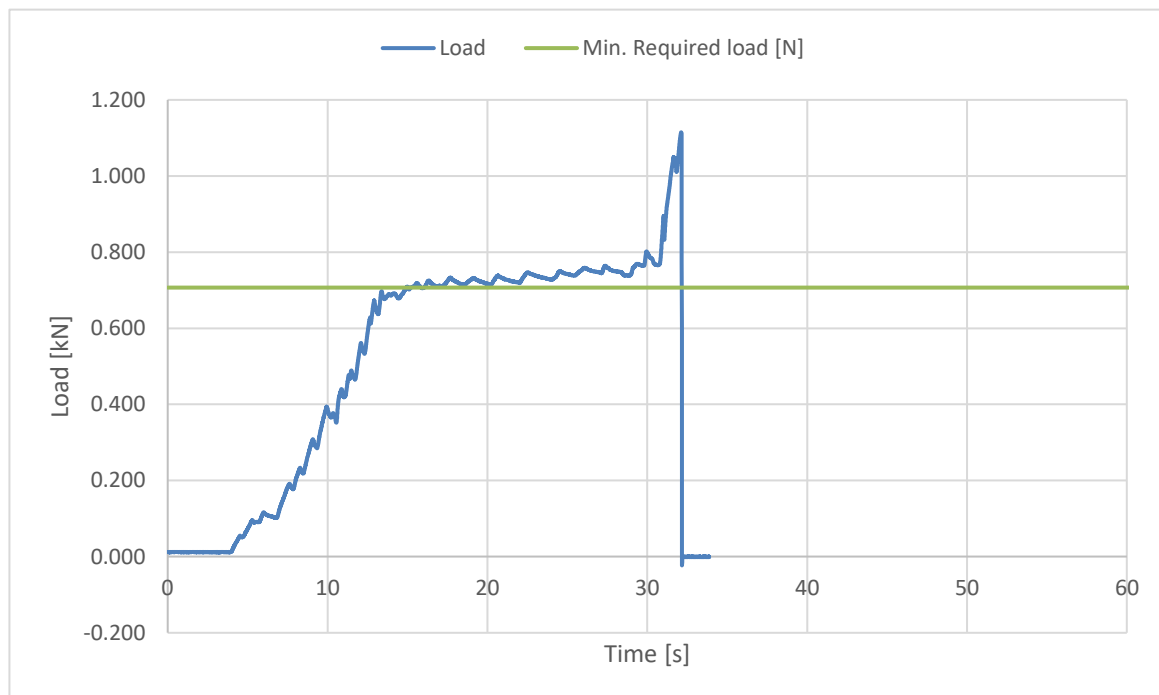
Rescue Deployment Handle strength test

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]:	16.1
Breaking strength [N]	1108.30
Test results	POSITIVE



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