

Harness Structural test Report - EN / NfL

Inspection certificate number: PH_483.2025

Manufacturer data:

Manufacturer name: **Dudek Paragliders**
 Representative: **POWAIR sp. z o.o.**
 Street: **Ul. Centralna 2U**
 Post code place: **86-031 Osielsko**
 Country: **Poland**

Sample data:

Name: **AimX 2025**
 Type: **ABS**
 Size: **M**
 Serial number: **H-21762**
 Impact pad type: ⁽¹⁾ **Foam**
 Clip-in weight [kg]: **100**

Date of test: **08.05.2025**

Atmosphere AGL:

[C°]	20
RH [%]	55
[hPa]	978

Summary of Structural test

Test id	EN 1651 / - NfL 2024-2-785	Setup	Req. Load [g]	Req. Load [N]	Min. duration [s]	Result
01 ⁽³⁾	✓ 5.5.1.1	Positive symmetric load (Slippage)	4.5	4500	5	POSITIVE
03 ⁽³⁾	✓ 5.5.1.1b	Positive symmetric load	15	15000	5	POSITIVE
05	✓ 5.5.1.2	Positive asymmetric load	6	6000	5	POSITIVE
06	✓ 5.5.1.6	Negative symmetric load	6	6000	5	POSITIVE
08 a ⁽³⁾	✓ 5.5.1.9	Anti falling-out system	4.5	4500	5	POSITIVE
08 b ⁽³⁾	5.5.1.9	Additional Anti falling-out system	4.5	4500	5	n/a
09 ⁽³⁾⁽⁴⁾	✓ 5.5.1.3	Positive symmetric load rescue points	15	15000	5	POSITIVE
10 ⁽³⁾⁽⁴⁾	5.5.1.4	Negative symmetric load rescue points	15	15000	5	n/a
11	✓ 5.5.1.8	Connecting element for rescue	n/a	24000	0.3	POSITIVE
12 ⁽³⁾	✓ 5.5.1.7	Upright (landing) position load	6	6000	5	POSITIVE
14	5.5.1.5	Negative symmetric load towing points	5	5000	5	n/a

Rescue deployment test

Test id	EN 1651 / - NfL 2024-2-785	Setup	Min. load [N]	Max. load [N]	Measured [N]	Result
RDT	✓ 5.5.1.11	Default flying position	20	70	49.25	POSITIVE

Rescue Deployment Handle strength test

Test id	EN 1651 / - NfL 2024-2-785	Setup	Req. Load [N]	Min. duration [s]	Break. strength [N]	Result
RST	✓ 5.3.2	Two end points of handle	700	10	1363.96	POSITIVE

Rescue deployment test with integrated container for rescue system

Test id	NfL 2-565-20	Setup	Result
RDIC	4.3.2-4.3.6	Release of the container at maximum volume	n/a

Manufacturer	Instrument	Type no	S/N	Validity
HBM	Load Sensor GE01	1-S9M/50KN-1	31314643	23.08.2028
Burster / MTS	Load sensor 10kN SL2	8431-6010-N000S000	593507	23.08.2028
JDC elec	Geos n°11 Skywatch	Geos n°11	Unit11	18.06.2025

Air Turquoise SA, has thoroughly tested the sample mentioned above and certifies its conformity with the following standards:

EN1651:2018+A1:2020 and EN12491:2015+A1:2021 and NfL 2024-2-785

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

⁽¹⁾ If Impact pad available, see test report no. 94.22 and inspection certificate no. 94.20a. ⁽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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model: **AimX 2025**

Harness Structural test

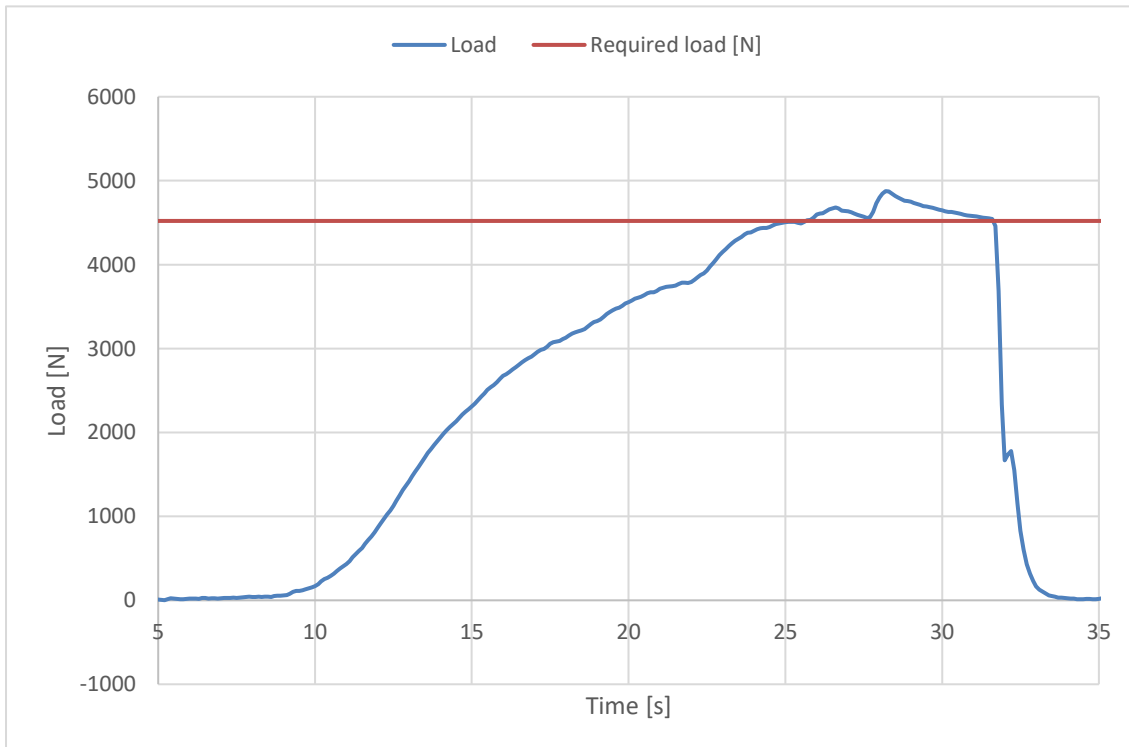
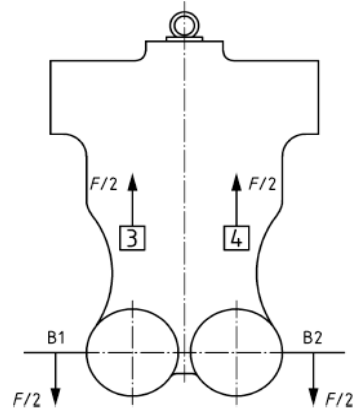
Test ID 01

Standard **EN 1651 / NfL 2024-2-785**
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] **4500**
Minimum test duration [s] **5**

Result

Test duration [s] **6**
Any signs of structural failure **No**
Slippery test OK **Yes**
Test results **POSITIVE**



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Harness Structural test

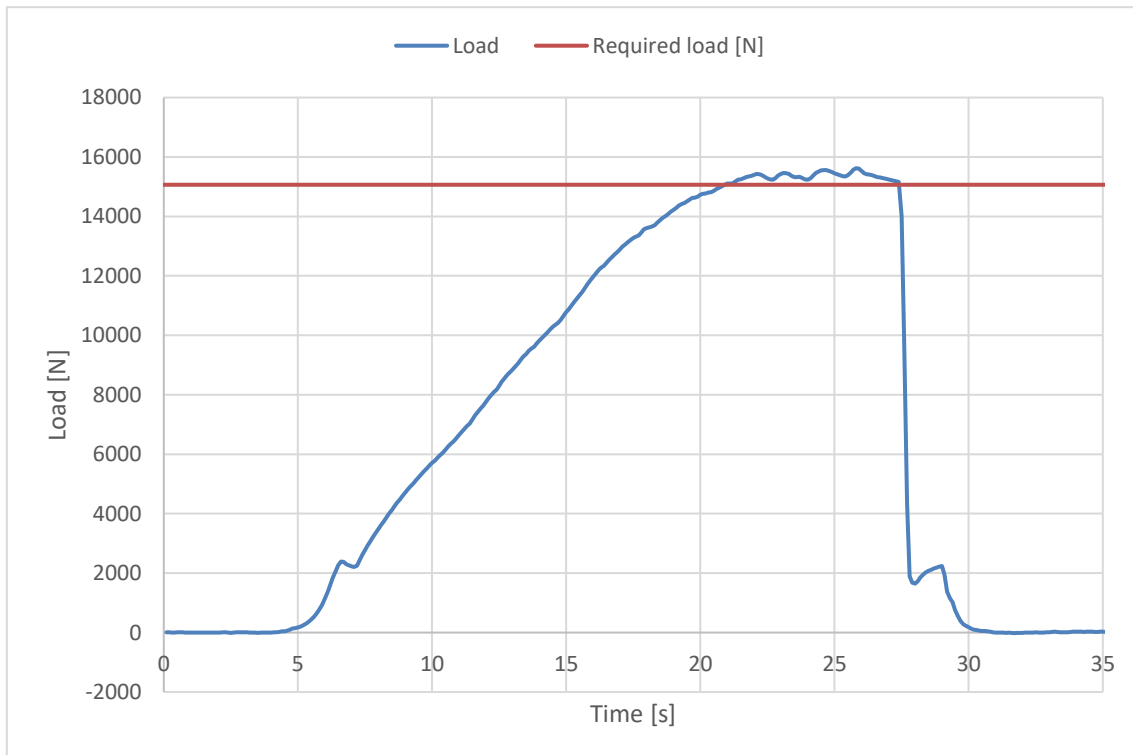
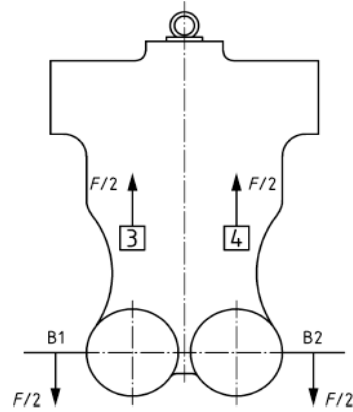
Test ID 03

Standard **EN 1651 / NfL 2024-2-785**
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] **15000**
Minimum test duration [s] **5**

Result

Test duration [s] **6.6**
Any signs of structural failure **No**
Slippery test OK **Yes**
Test results **POSITIVE**

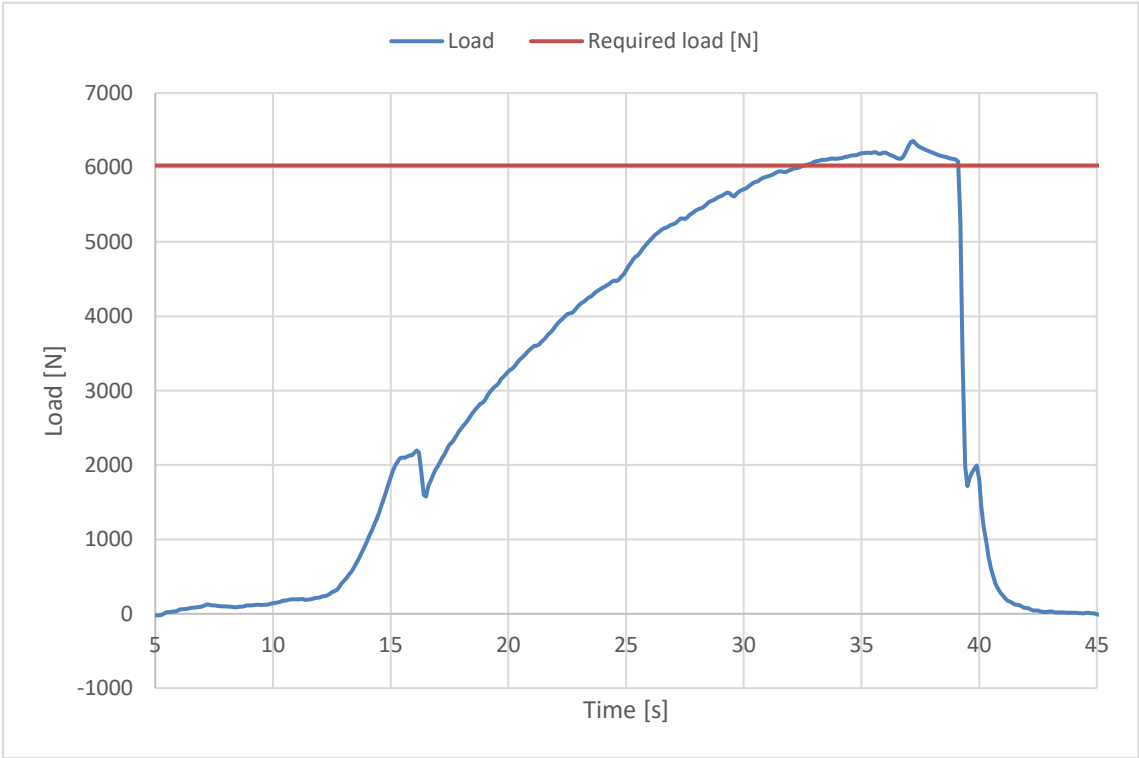
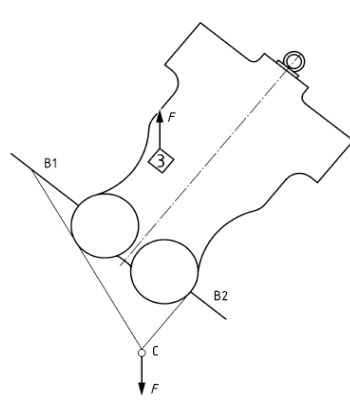


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Harness Structural test **Test ID 05**

Standard	EN 1651 / NfL 2024-2-785
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]	6000
Minimum test duration [s]	5
Result	
Test duration [s]	6.6
Any signs of structural failure	No
Test results	POSITIVE



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model: **AimX 2025**

Harness Structural test

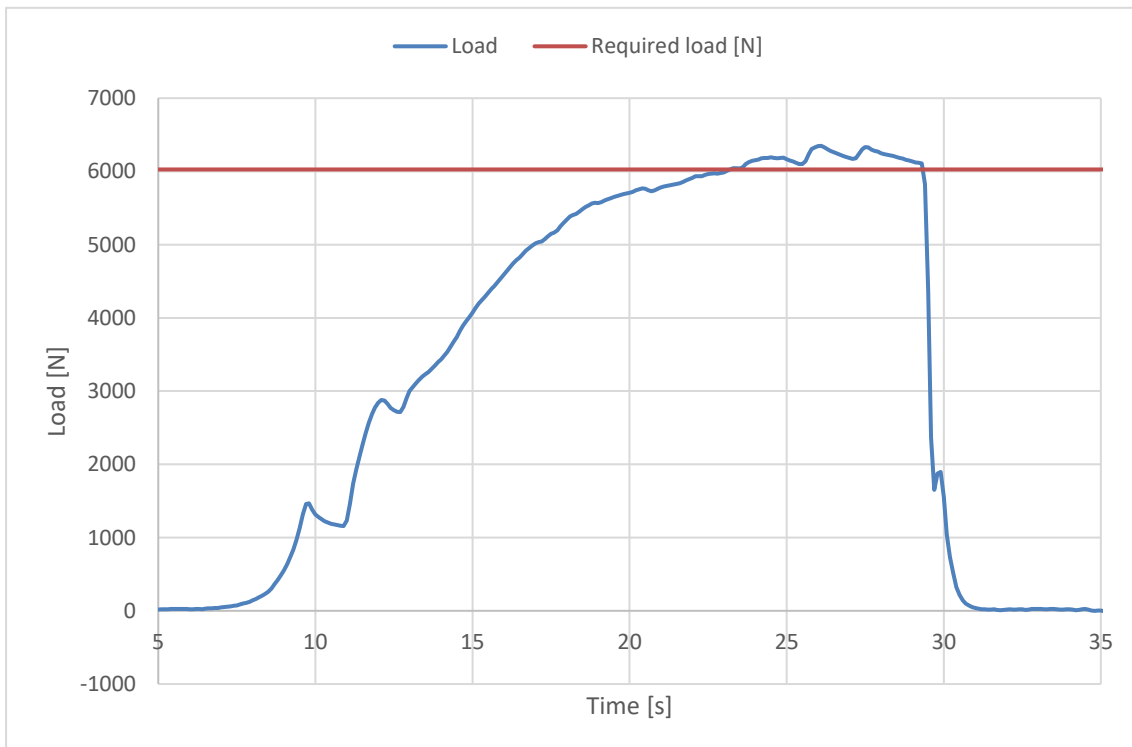
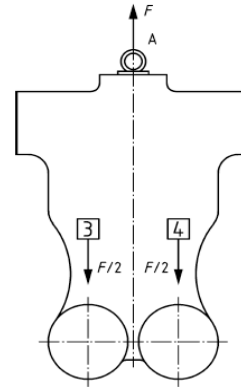
Test ID 06

Standard **EN 1651 / NfL 2024-2-785**
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] **6000**
Minimum test duration [s] **5**

Result

Test duration [s] **6.2**
Any signs of structural failure **No**
Test results **POSITIVE**



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Harness Structural test

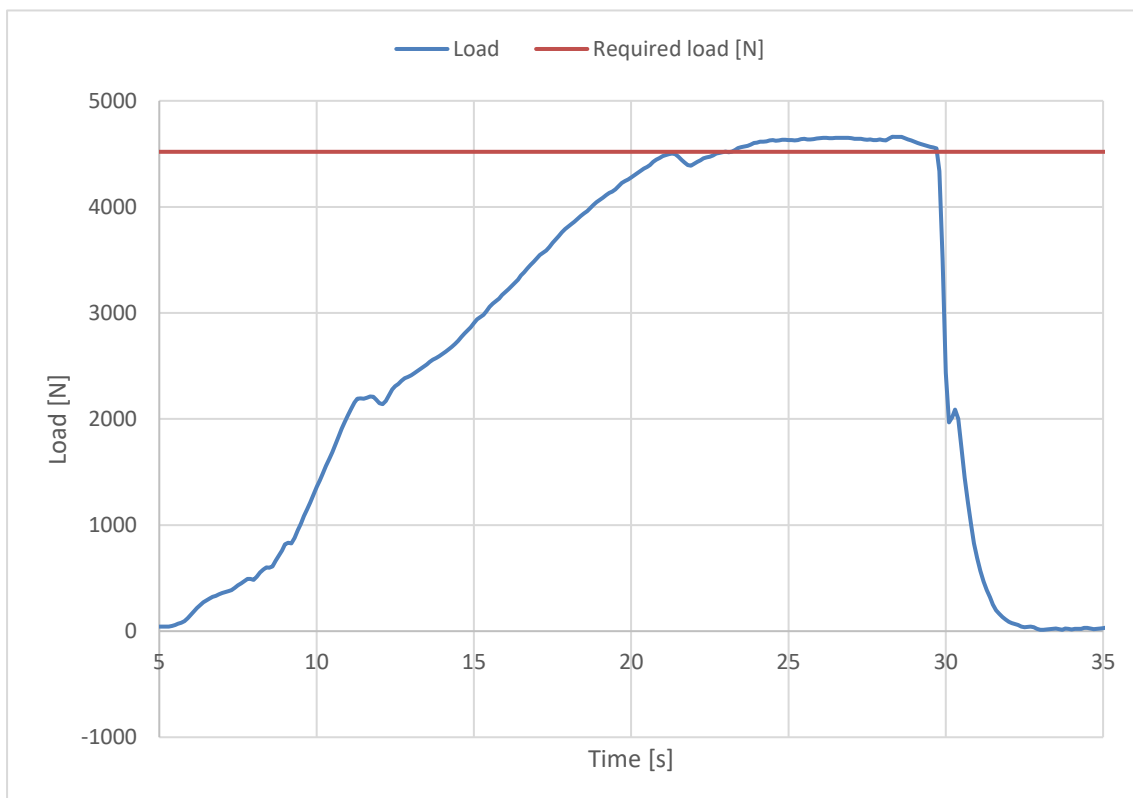
Test ID 08

Standard **EN 1651 / NfL 2024-2-785**
Reference in standard **5.5.1.9**
Test setup **Additional 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] **4500**
Minimum test duration [s] **5**

Result

Test duration [s] **6.6**
Any signs of structural failure **No**
Test results **POSITIVE**



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Harness Structural test

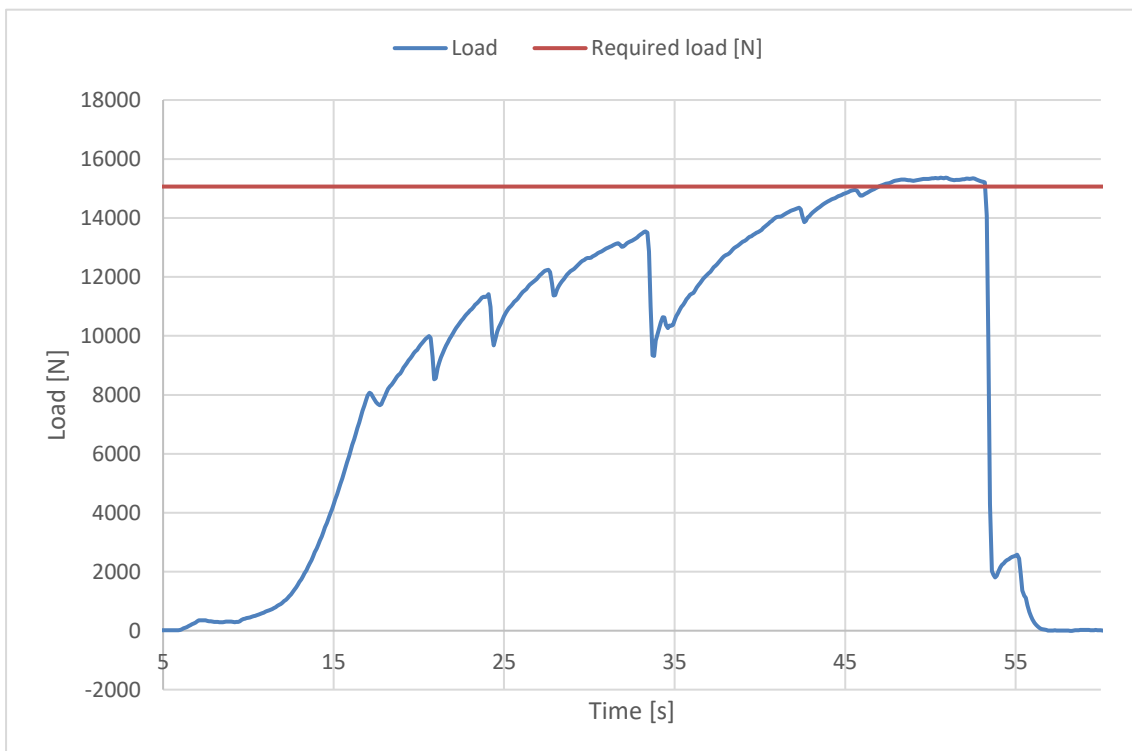
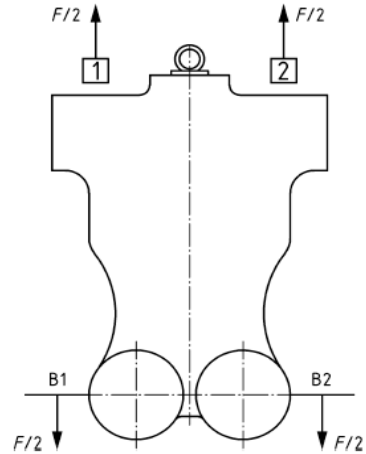
Test ID 09

Standard **EN 1651 / NfL 2024-2-785**
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] **15000**
Minimum test duration [s] **5**

Result

Test duration [s] **6.3**
Any signs of structural failure **No**
Slippery test OK **Yes**
Test results **POSITIVE**



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Harness Structural test

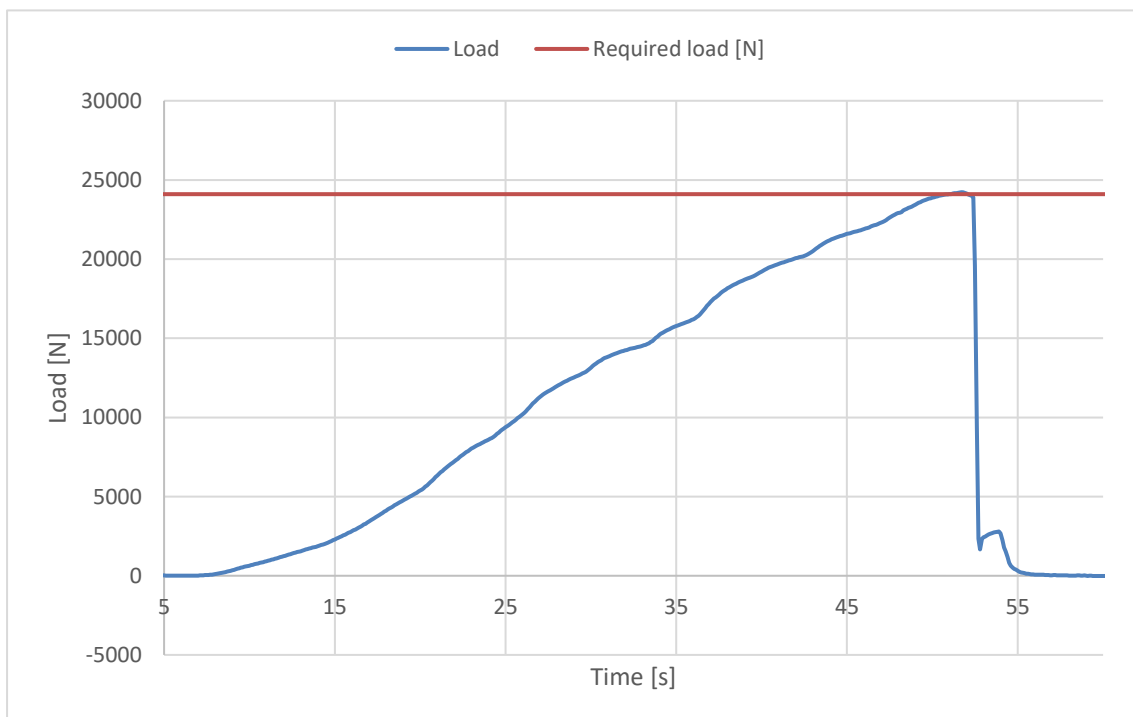
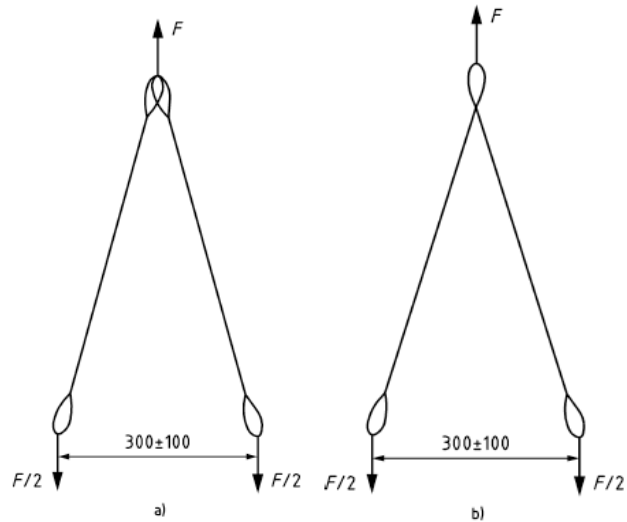
Test ID 11

Standard **EN 1651 / NfL 2024-2-785**
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 **a) two single elements**

Result

Test duration [s] **1**
Any signs of structural failure **No**
Test results **POSITIVE**



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Harness Structural test

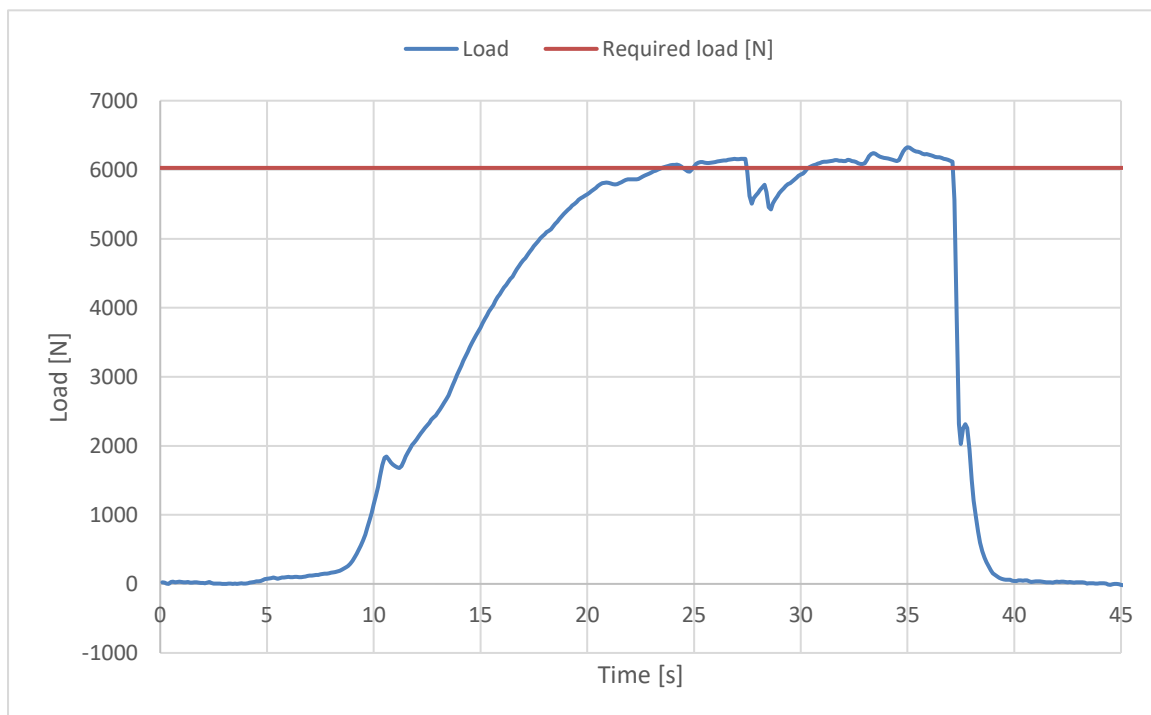
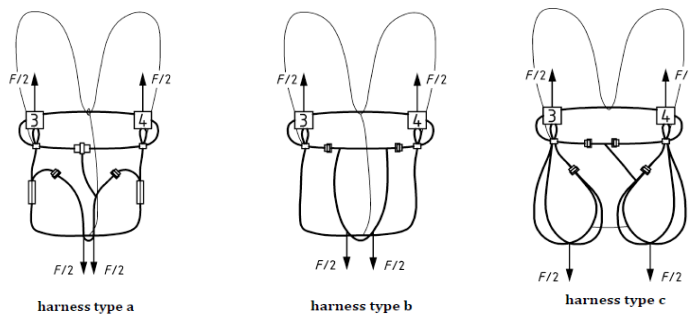
Test ID 12

Standard **EN 1651 / NfL 2024-2-785**
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] **6000**
Minimum test duration [s] **5**
Harness type **type a**

Result

Test duration [s] **6.8**
Any signs of structural failure **No**
Slippery test OK **Yes**
Test results **POSITIVE**



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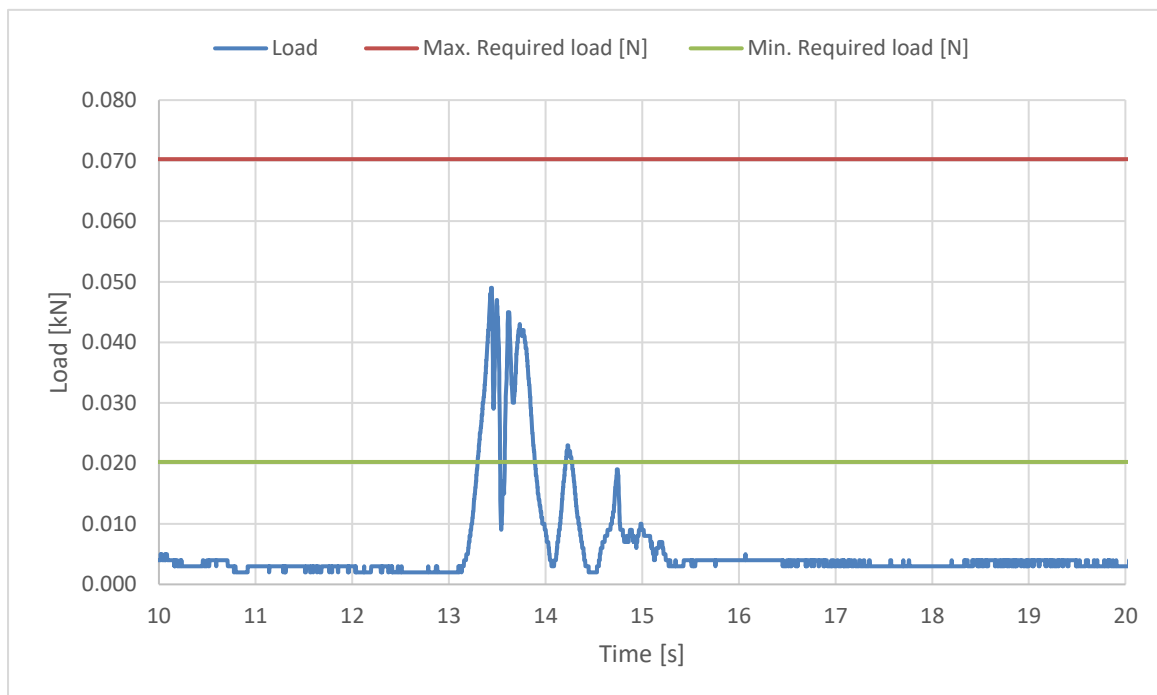
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Rescue Deployment Test

Test ID RDT

Standard	EN 1651 / NfL 2024-2-785
Reference in standard	5.5.1.11
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]	49.25
Test results	POSITIVE



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Rescue Deployment Handle strength test

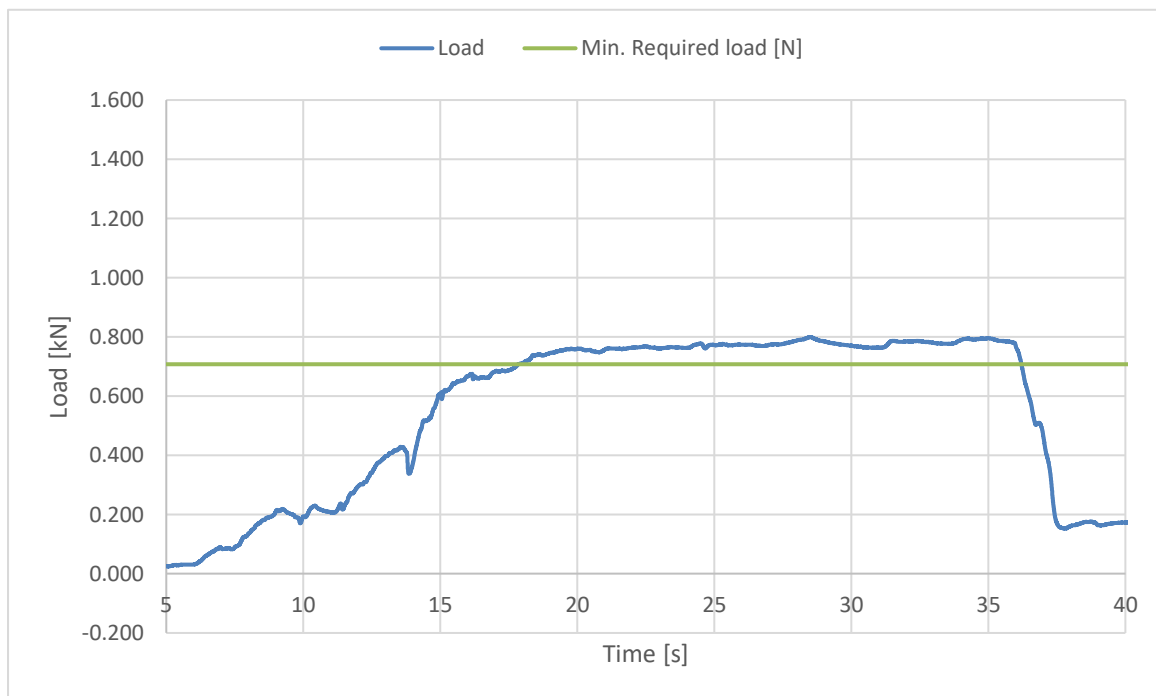
Test ID RST

Standard	EN 1651 / NfL 2024-2-785
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]:	22.9
Breaking strength [N]	1363.96
Test results	POSITIVE



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