

Harness Structural test Report - EN

Inspection certificate number: **PH_329.2021**

Manufacturer data:

Manufacturer name: **Neo SAS**
 Representative: **Eric Roussel**
 Street: **ZA des Vernays**
 Post code place: **74210 Doussard**
 Country: **France**

Sample data:

Name: **Stay Up Pro Model 2.0**
 Type: **ABS**
 Size: **M**
 Serial number: **I10 002**
 Impact pad type: ⁽¹⁾ **Koroyd**
 Clip-in weight [kg]: **100**

Date of test: **04.03.2021**

Atmosphere AGL:

[C°]	20
RH [%]	40
[hPa]	1012

Summary of Structural test

Test id	- EN 1651	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 ⁽⁵⁾	5.5.1.9	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	n/a
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	n/a
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	- NfL II 91/09	Setup	Min load [N]	Max. load [N]	Measured [N]	Result
RRDT	✓ 6.1.5	Default flying position	20	70	46.72	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	1172.91	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	Unit11	18.06.2025

Air Turquoise SA, having thoroughly assessed the sample mentioned above, declare it was found conform with

European Standard EN1651:2018, and **EN12491:2015**

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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model: **Stay Up Pro Model 2.0**

Harness Structural test

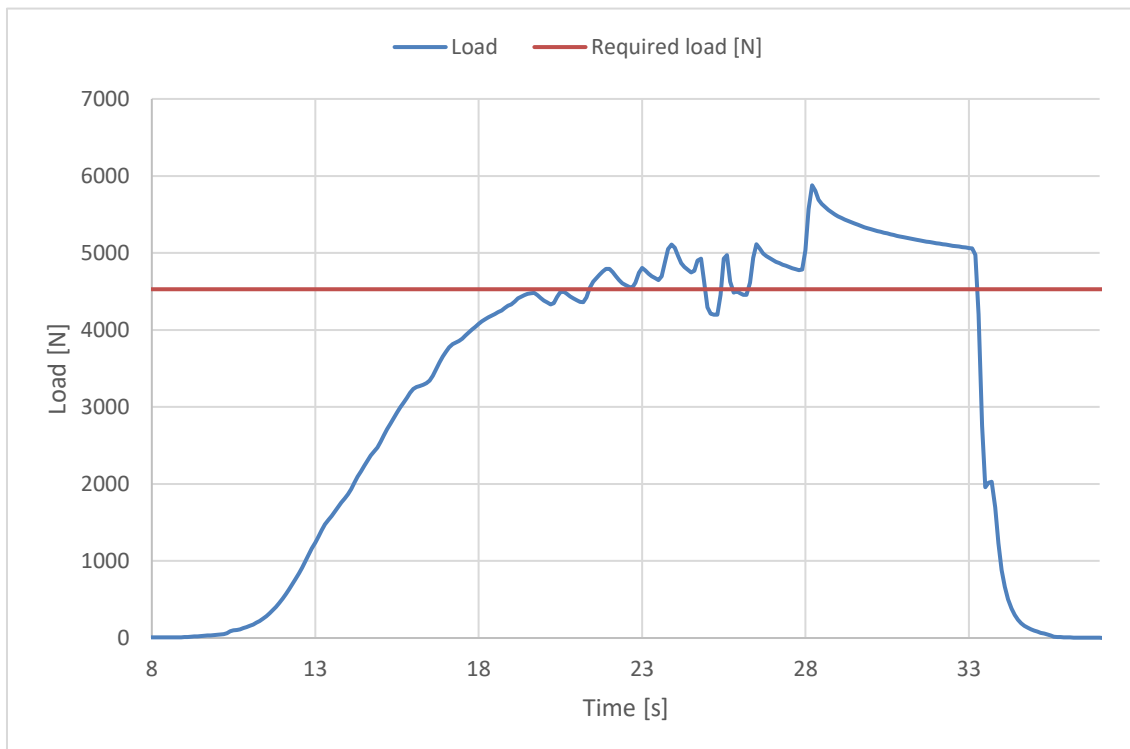
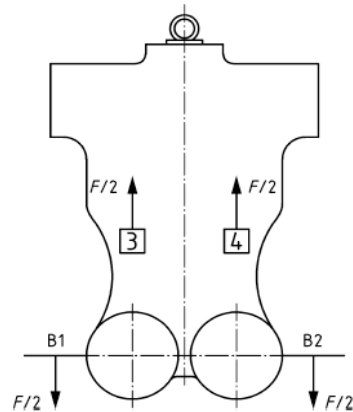
Test ID 01

Standard **EN 1651**
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] **7**
Any signs of structural failure **No**
Slippery test OK **Yes**
Test results **POSITIVE**



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model: **Stay Up Pro Model 2.0**

Harness Structural test

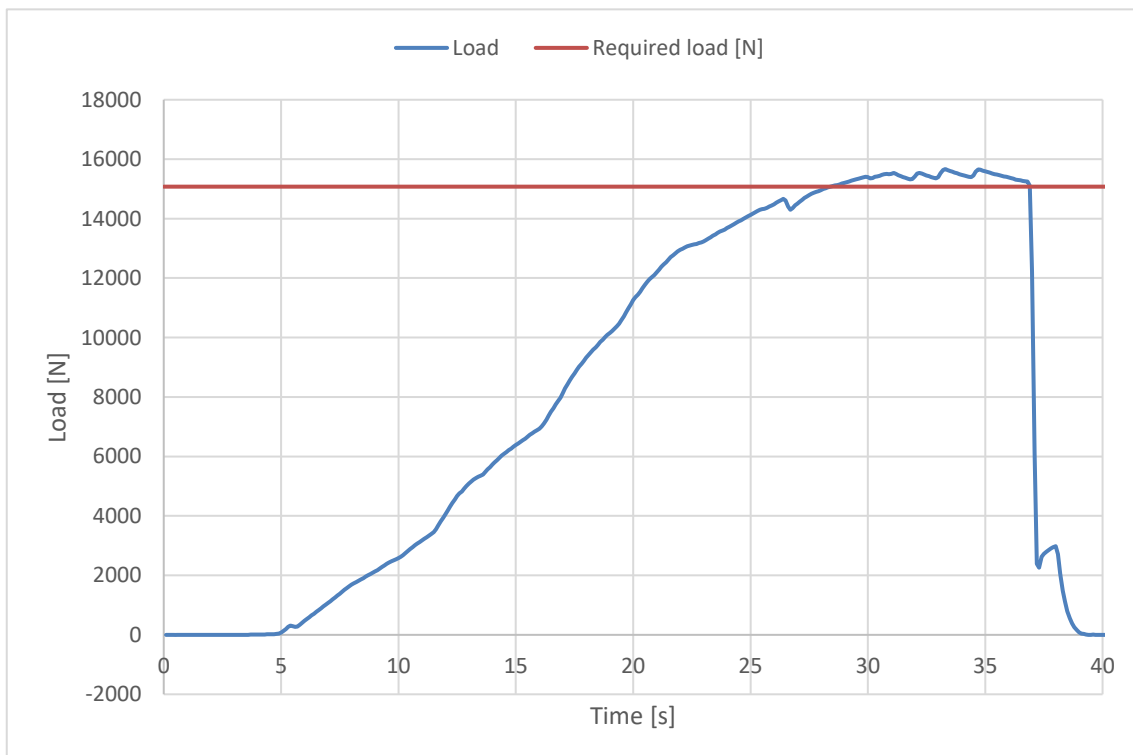
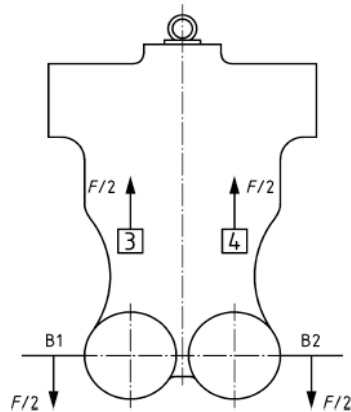
Test ID 03

Standard **EN 1651**
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] **8.6**
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**

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**

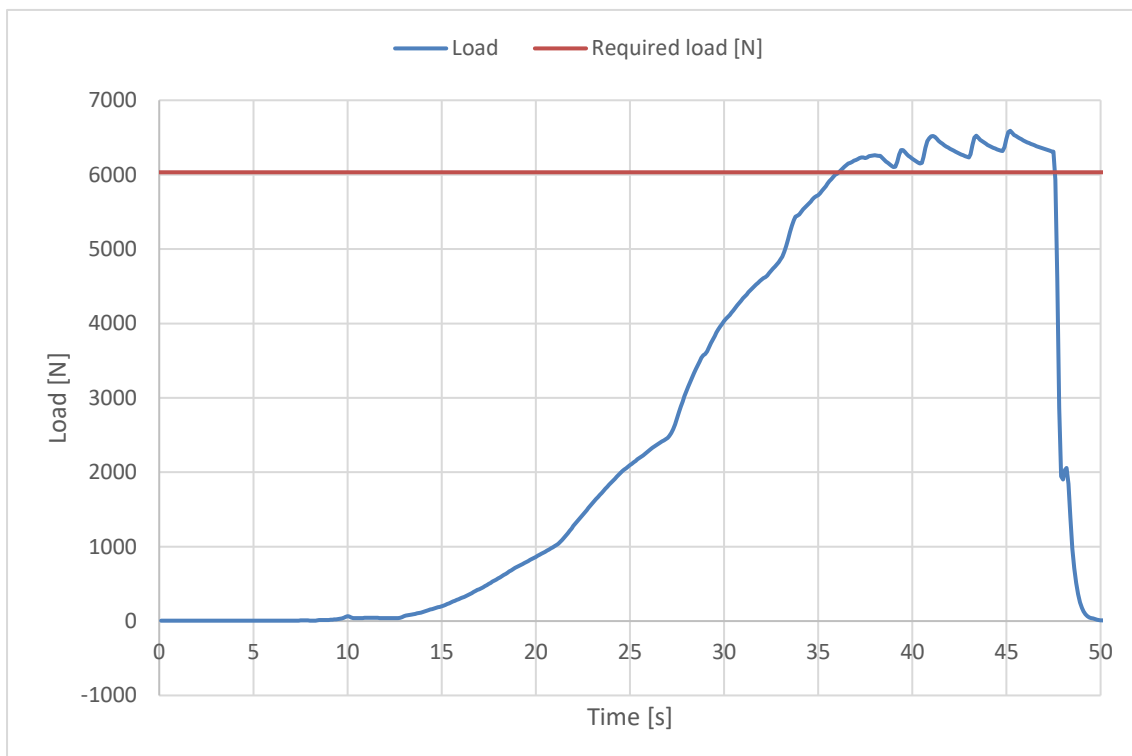
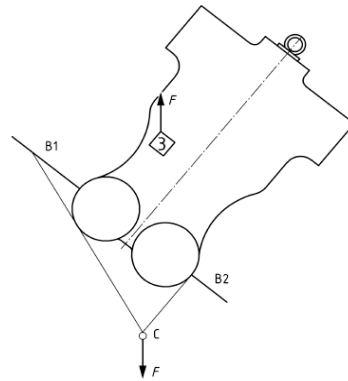
Minimum test duration [s] **5**

Result

Test duration [s] **11.5**

Any signs of structural failure **No**

Test results **POSITIVE**



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Harness Structural test

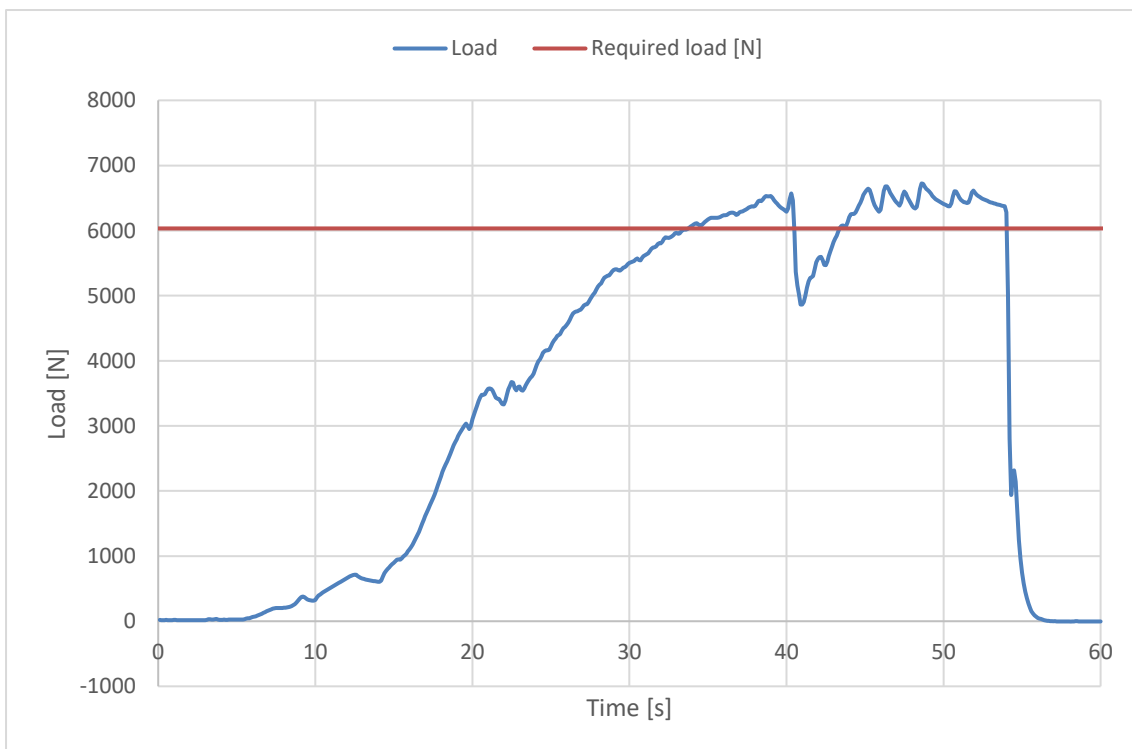
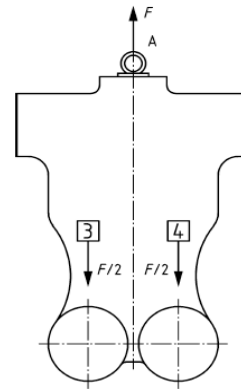
Test ID 06

Standard **EN 1651**
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] **10.7**
Any signs of structural failure **No**
Test results **POSITIVE**



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model: **Stay Up Pro Model 2.0**

Harness Structural test

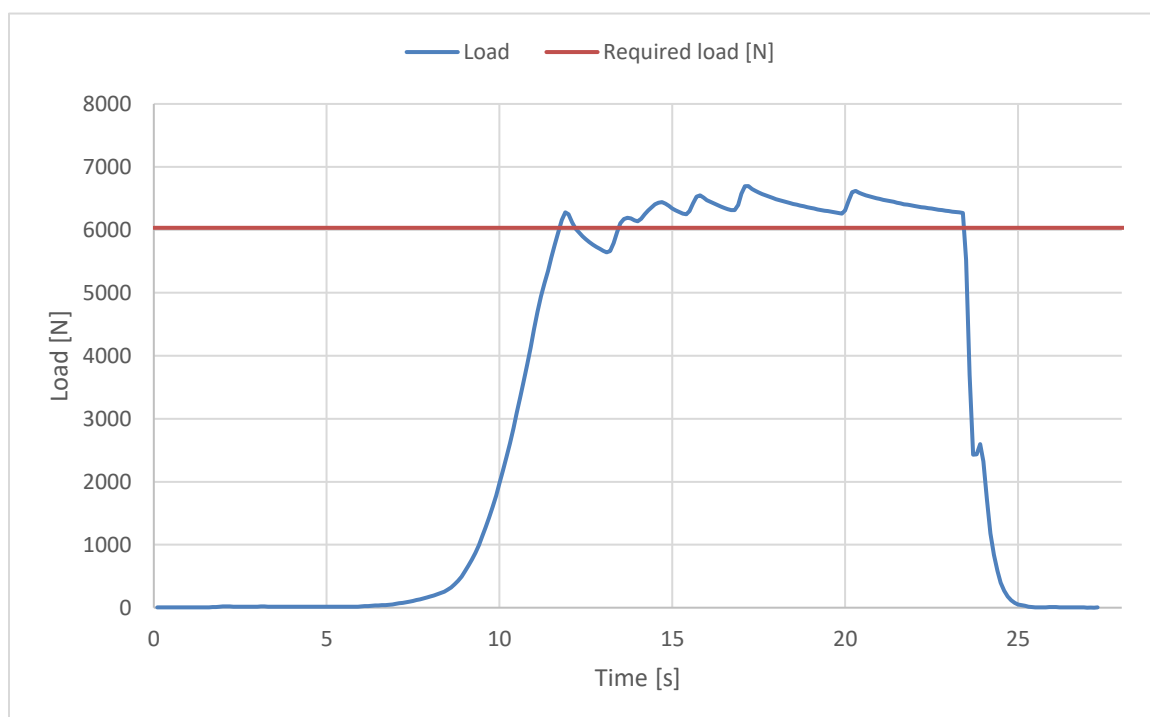
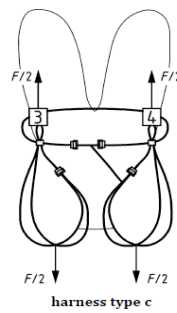
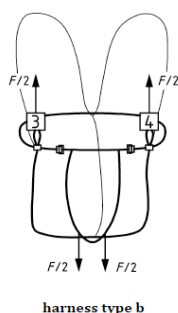
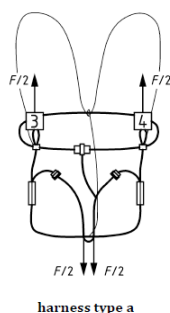
Test ID 12

Standard **EN 1651**
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 b**

Result

Test duration [s] **10**
Any signs of structural failure **No**
Slippery test OK **Yes**
Test results **POSITIVE**



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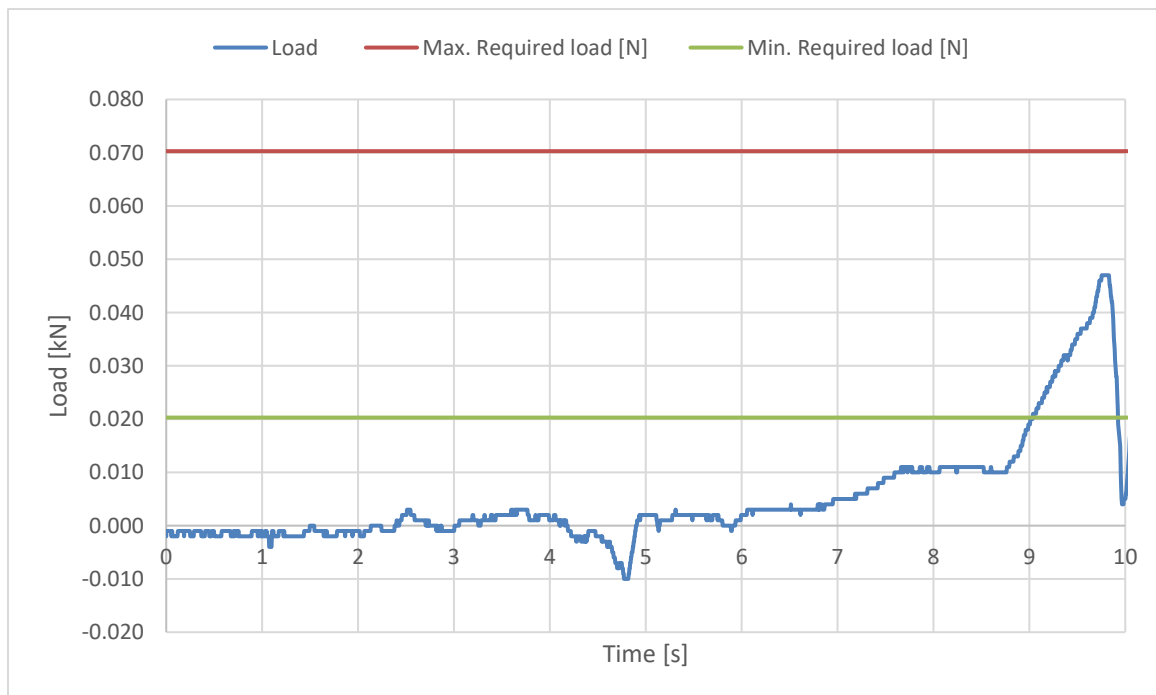
Inspection certificate number: **PH_329.2021**

model: **Stay Up Pro Model 2.0**

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]	46.72
Test results	POSITIVE



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Rescue Deployment Handle strength test

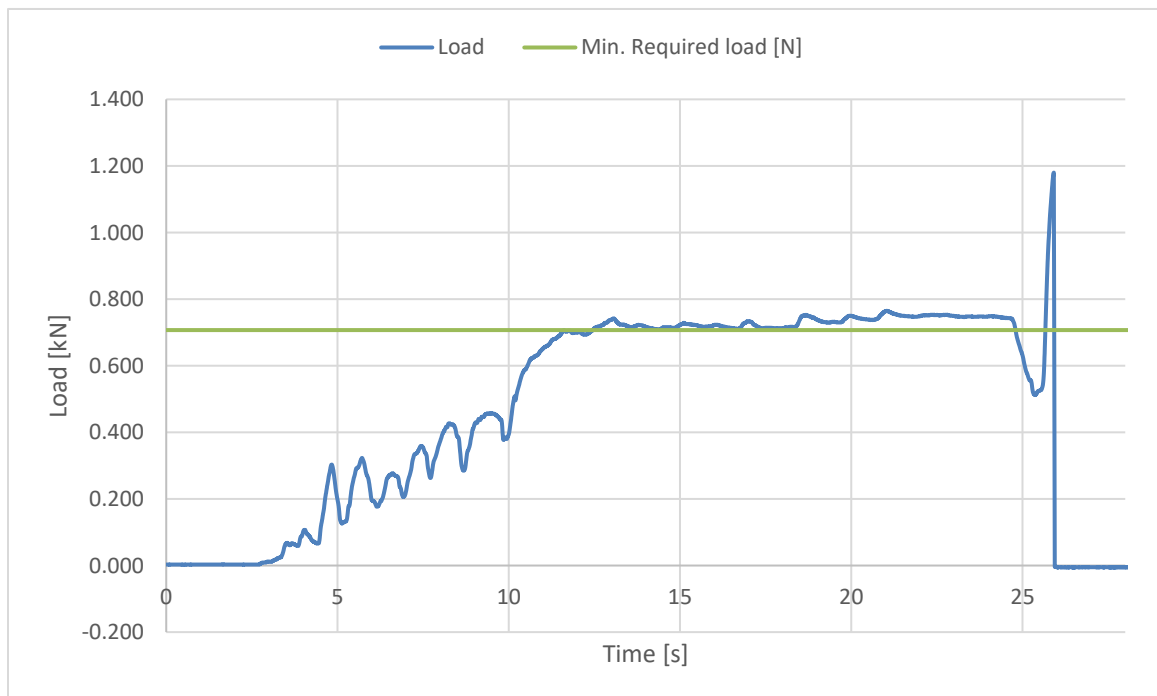
Test ID RRST

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]: **12.3**
Breaking strength [N] **1172.91**
Test results **POSITIVE**



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