

Harness Structural test Report - EN

Inspection certificate number: PH_461.2024

Manufacturer data:

Manufacturer name: **Niviuk Gliders**
 Representative: **Dominique Cizeau**
 Street: **C. Del Ter, 6-Nave D**
 Post code place: **17165 La Cellera de Ter Girona**
 Country: **Spain**

Sample data:

Name: **Konvers 3**
 Type: **ABS**
 Size: **L**
 Serial number: **CKONVERS3LV311E**
 Impact pad type: ⁽¹⁾ **Airbag**
 Clip-in weight [kg]: **120**

Date of test: **03.12.2024**

Atmosphere AGL:

[C°]	20
RH [%]	55
[hPa]	1008

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	5400	5	POSITIVE
03 ⁽³⁾	✓ 5.5.1.1b	Positive symmetric load	15	18000	5	POSITIVE
05	✓ 5.5.1.2	Positive asymmetric load	6	7200	5	POSITIVE
06	✓ 5.5.1.6	Negative symmetric load	6	7200	5	POSITIVE
08 ⁽⁵⁾	5.5.1.9	Anti falling-out system	4.5	5400	5	n/a
09 ⁽³⁾⁽⁴⁾	✓ 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
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	7200	5	POSITIVE
14	5.5.1.5	Negative symmetric load towing points	5	6000	5	n/a

Rescue deployment test

Test id	- EN 1651	Setup	Min. load [N]	Max. load [N]	Measured [N]	Result
RRDT	✓ 5.5.1.11	Default flying position	20	70	56.29	POSITIVE

Rescue Deployment Handle strength test

Test id	- EN 12491	Setup	Req. Load [N]	Min. duration [s]	Break. strength [N]	Result
RRST	✓ 5.3.2	Two end points of handle	700	10	750.13	POSITIVE

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⁽⁶⁾ and EN12491:2015+A1:2021⁽⁶⁾

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

⁽¹⁾ If Impact pad available, see test report no. 94.22 and inspection certificate no. 94.20b. ⁽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)

⁽⁶⁾ These standards are NOT covered by accreditation D-IS-19457-01

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_461.2024**

model: **Konvers 3**

Harness Structural test

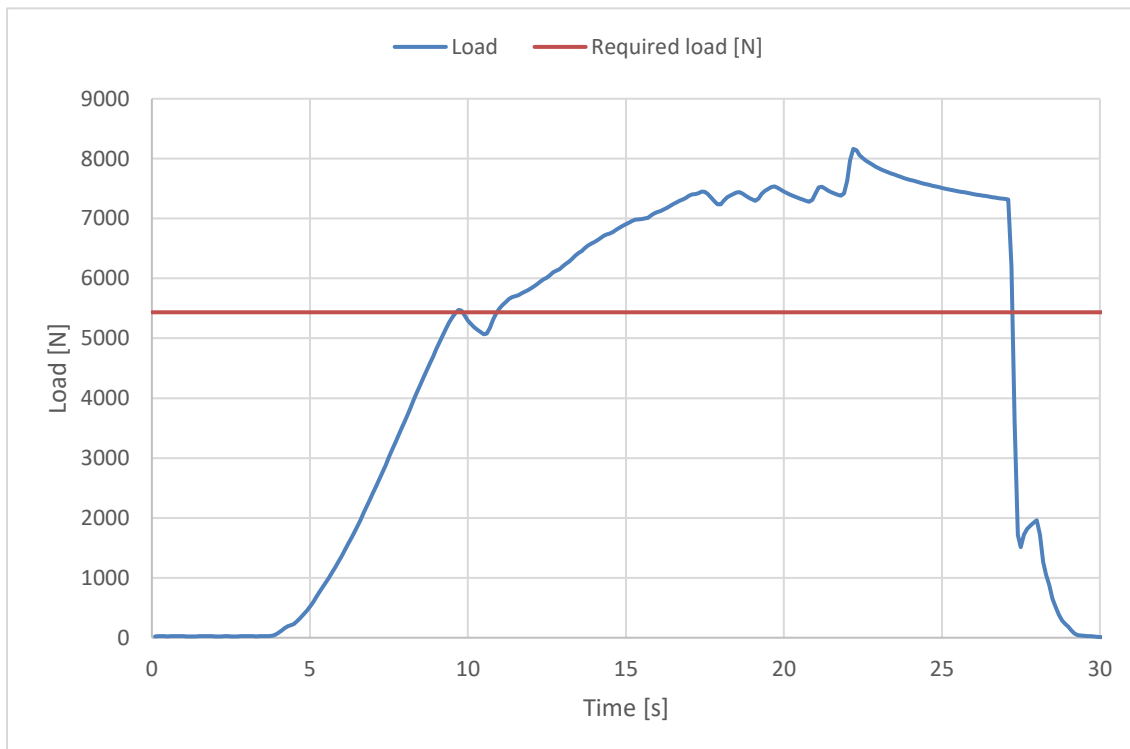
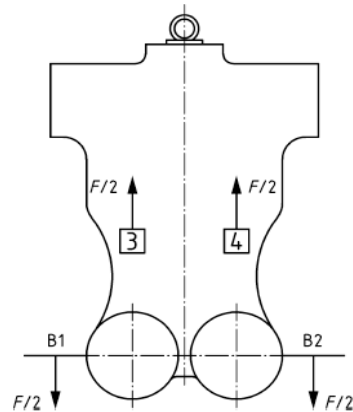
Test ID 01

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] **5400**
Minimum test duration [s] **5**

Result

Test duration [s] **16.3**
Any signs of structural failure **No**
Slippery test OK **Yes**
Test results **POSITIVE**



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Harness Structural test

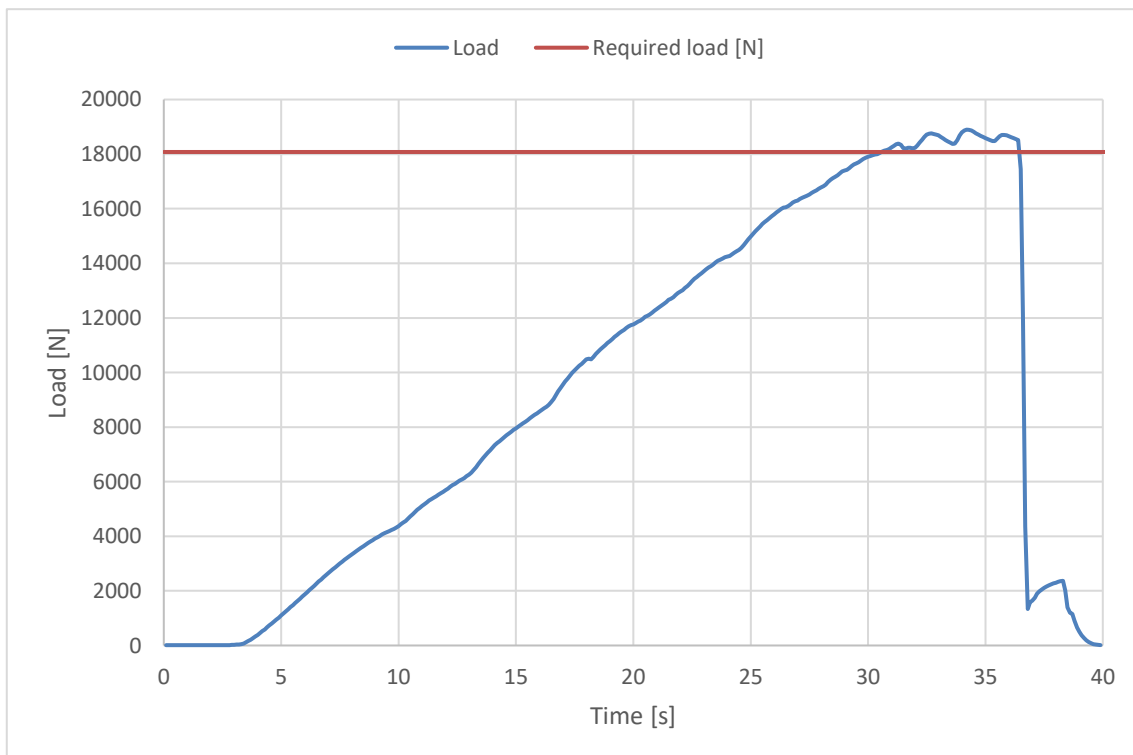
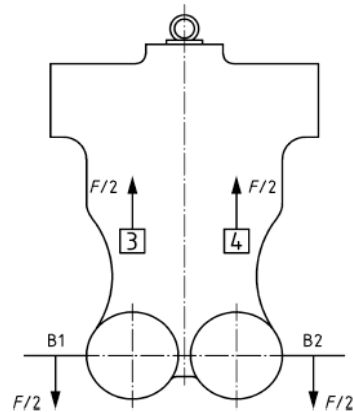
Test ID 03

Standard **EN 1651**
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] **5.9**
Any signs of structural failure **No**
Slippery test OK **Yes**
Test results **POSITIVE**



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Harness Structural test

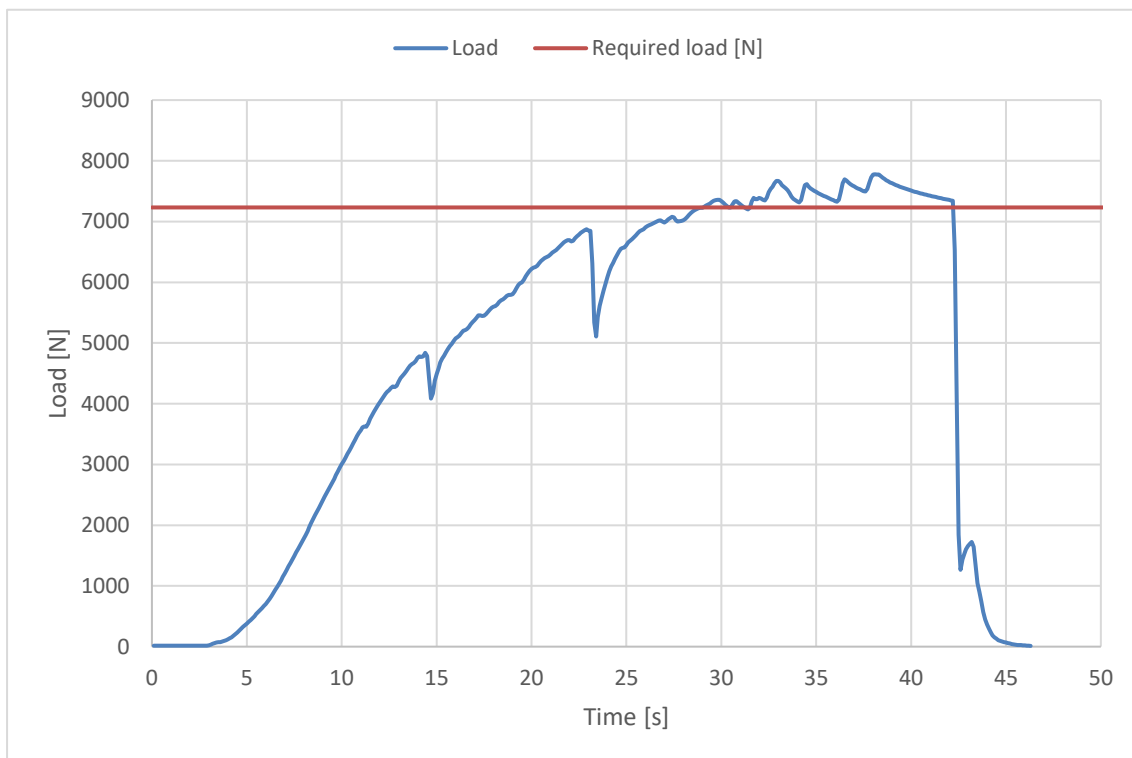
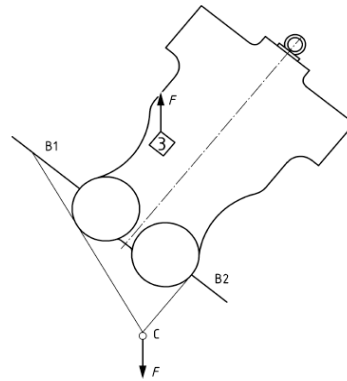
Test ID 05

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] **7200**
Minimum test duration [s] **5**

Result

Test duration [s] **10.7**
Any signs of structural failure **No**
Test results **POSITIVE**



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Harness Structural test

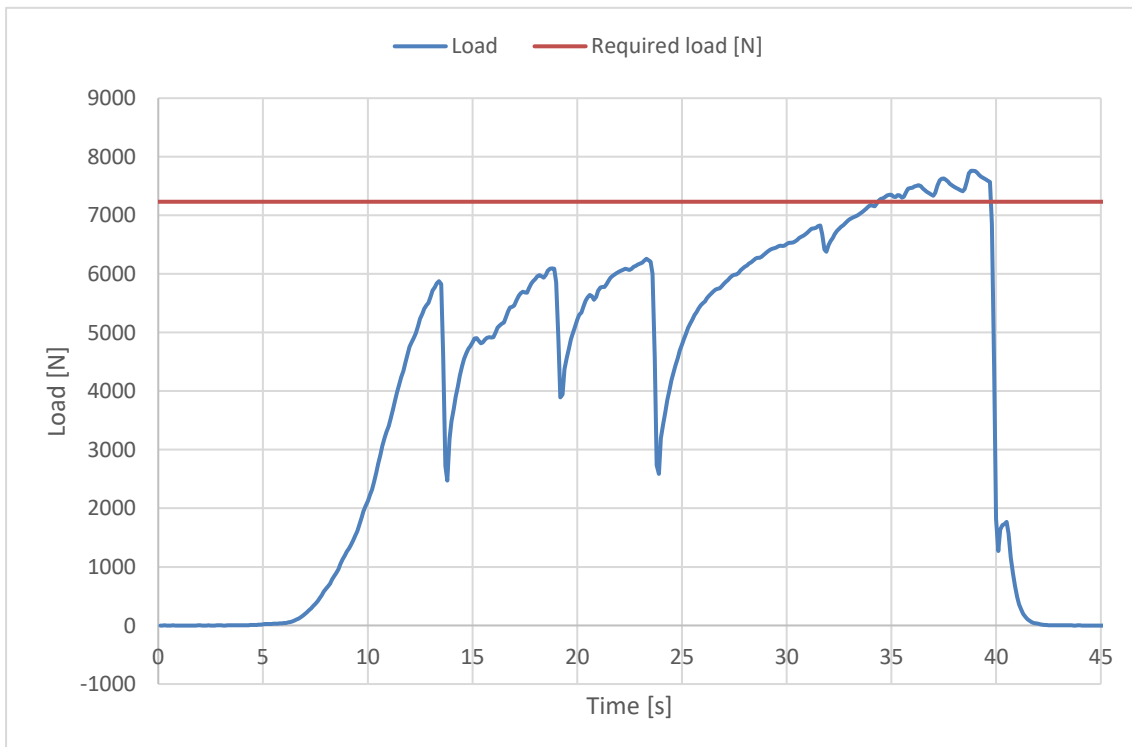
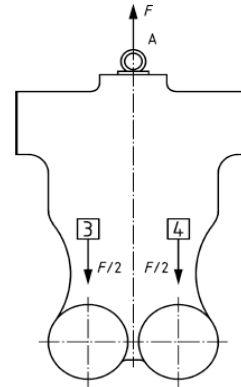
Test ID 06

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] **7200**
Minimum test duration [s] **5**

Result

Test duration [s] **5.4**
Any signs of structural failure **No**
Test results **POSITIVE**



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model: **Konvers 3**

Harness Structural test

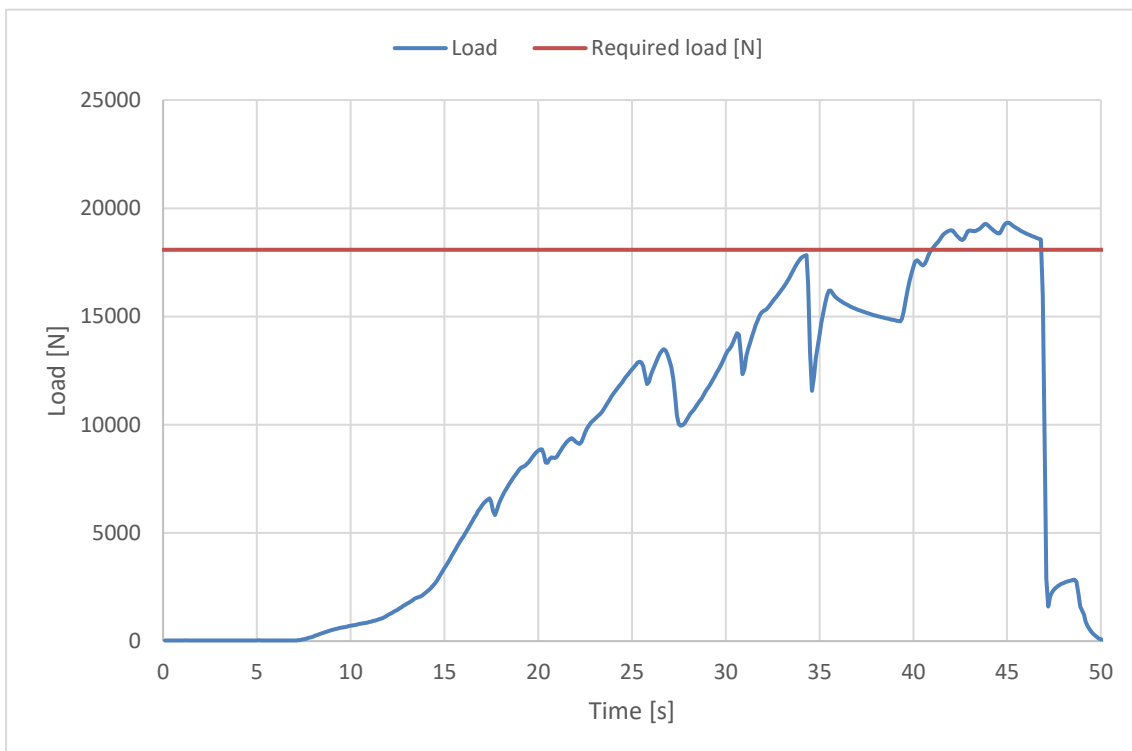
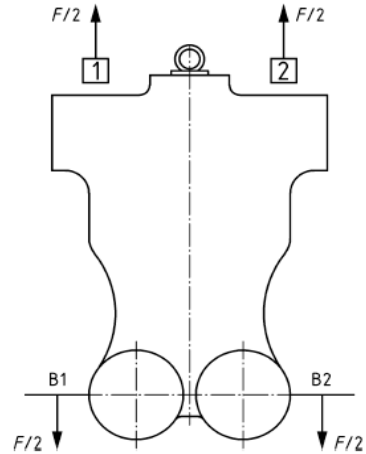
Test ID 09

Standard **EN 1651**
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] **5.9**
Any signs of structural failure **No**
Slippery test OK **Yes**
Test results **POSITIVE**



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Harness Structural test

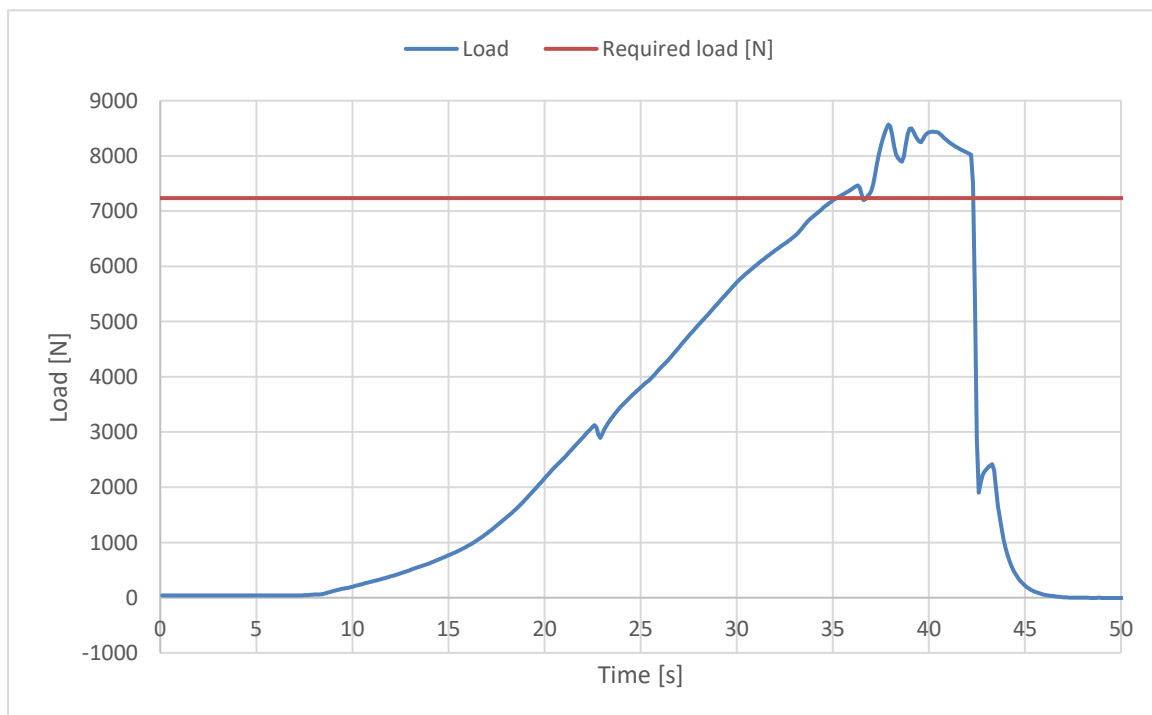
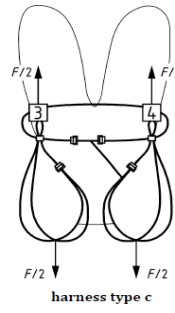
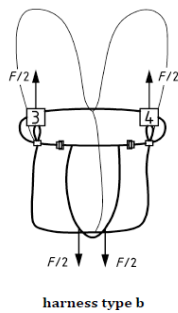
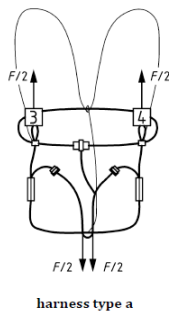
Test ID 12

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] **7200**
Minimum test duration [s] **5**
Harness type **type b**

Result

Test duration [s] **5.6**
Any signs of structural failure **No**
Slippery test OK **Yes**
Test results **POSITIVE**

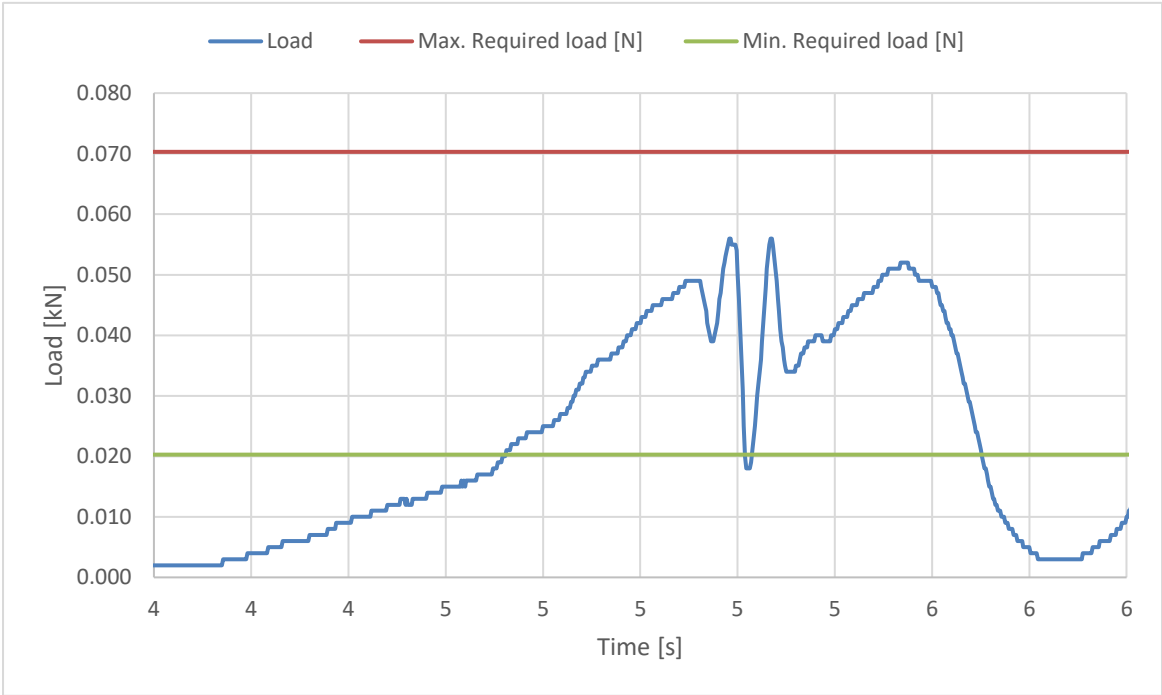


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model: Konvers 3

Rescue Deployment Test		Test ID RRDT
Standard	EN 1651	
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]	56.29	
Test results	POSITIVE	



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Rescue Deployment Handle strength test

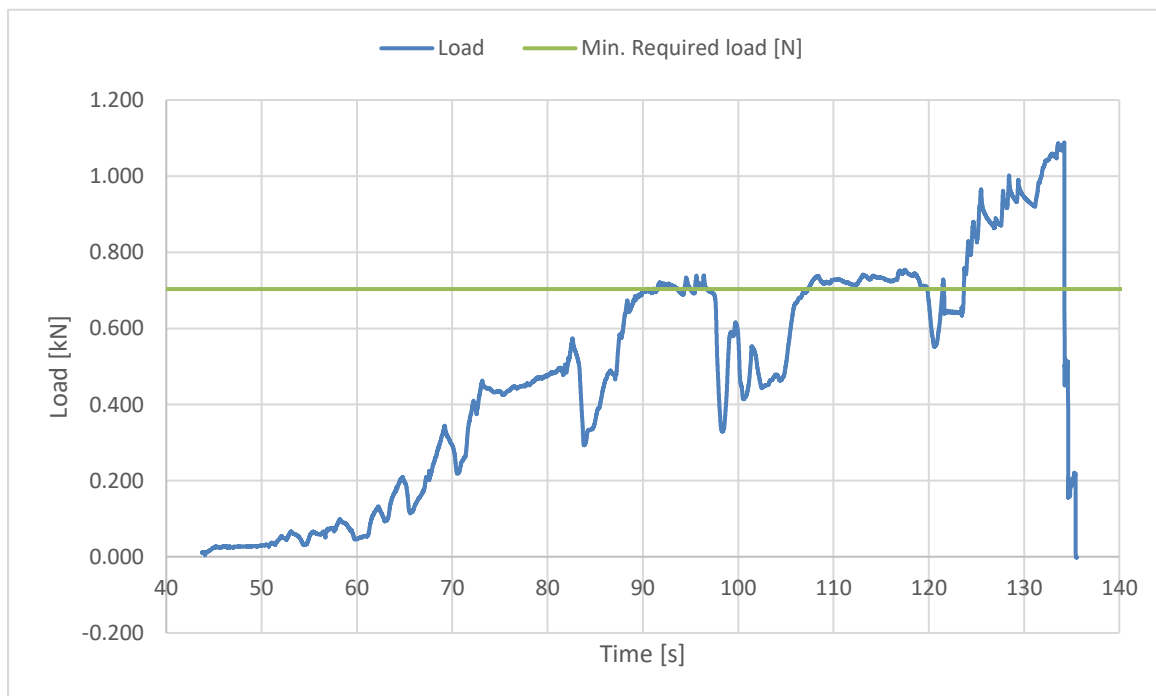
Test ID RRST

Standard **EN 12491**
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]: **12.5**
Breaking strength [N] **750.13**
Test results **POSITIVE**



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