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Test laboratory for paragliders, paraglider harnesses
and paraglider reserve parachutes

paragliding by air turquoise

Harness Structural test Report - EN / NfL

Inspection certificate number: **PH_512.2026**

Manufacturer data:

Manufacturer name:	**Advance Thun AG**
Representative:	**Rolf Zeltner**
Street:	**Uttigenstrasse 87**
Post code place:	**3600 Thun**
Country:	**Switzerland**

Sample data:

Name:	**PROGRESS 4**
Size:	**M**
Serial number:	**11196918**
Impact pad: (1)	**Yes**
Clip-in weight [kg]:	**120**
Date of test:	**09.04.2026**

Atmosphere AGL:

[C°]	**21**
RH [%]	**40**
[hPa]	**976**

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)	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**
06	V	5.5.1.6	Negative symmetric load	6	7200	5	**POSITIVE**
08 a (5)		5.5.1.9	Anti falling-out system	4.5	5400	5	**n/a**
08 b (5)		4.1.6	Additional Anti falling-out system	4.5	5400	5	**n/a**
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**
11		5.5.1.8	Connecting element for rescue	n/a	24000	0.3	**n/a**
12(3)	V	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 / NfL 2024-2-785	Setup	Min. load [N]	Max. load [N]	Measured [N]	Result
RDT	V	5.5.1.11	Default flying position	20	70	**39.20**	**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	V	5.3.2	Two end points of handle	700	10	**1908.15**	**POSITIVE**

Rescue deployment test with integrated container for rescue system

Test id	-	NfL 2024-2-785	Setup	Result
RDIC	V	4.3.2-4.3.6	Release of the container at maximum volume	**POSITIVE**

Manufacturer	Instrument	Type no	S/N	Validity
HBM	Load Sensor GE01	1-S9M/50KN-1	31314643	24.03.2030
Burster / MTS	Load sensor 10kN SL2	8431-6010-N000S000	593507	24.03.2030
JDC elec	Geos n°11 Skywatch	Geos n°11	Unit11	24.07.2030

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

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(1) If Impact pad available, see test report no. 94.22 if integrated or 95.14 if not integrated 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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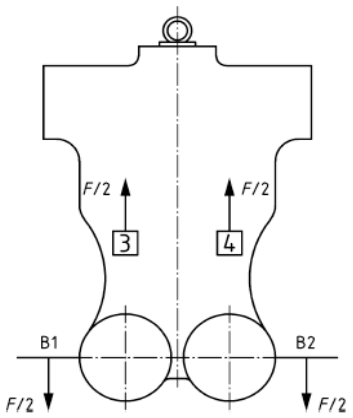
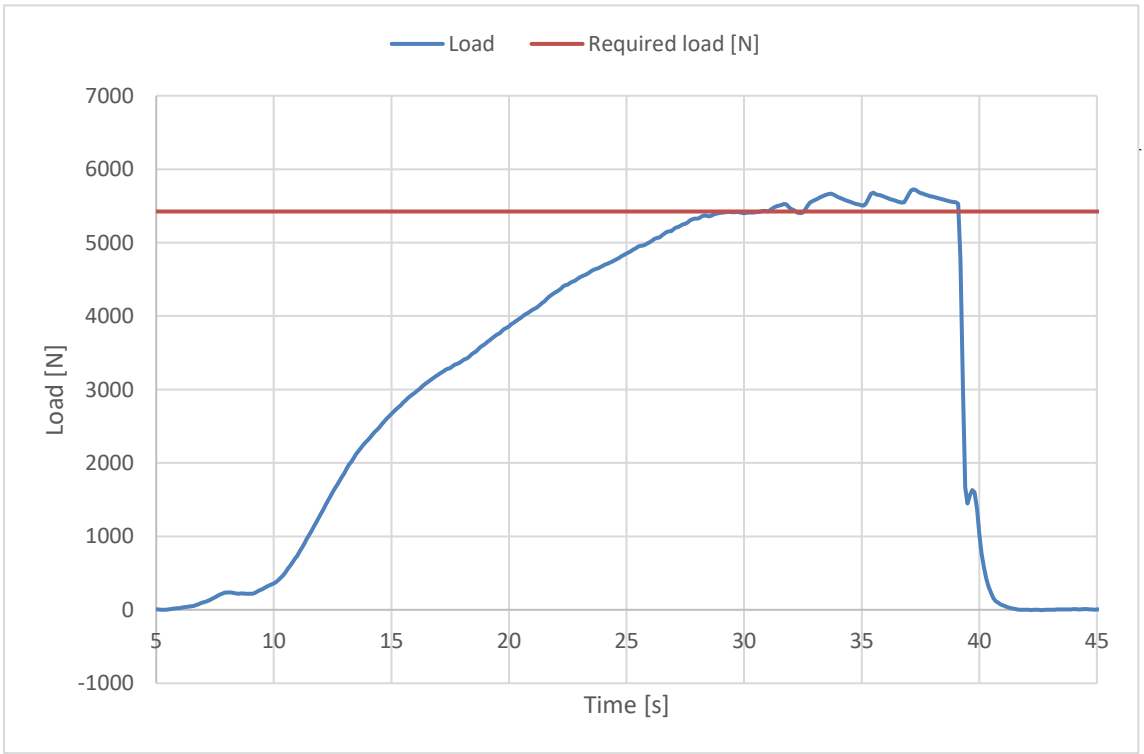
Inspection certificate number: **PH_512.2026** model: **PROGRESS 4**

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]	**5400**
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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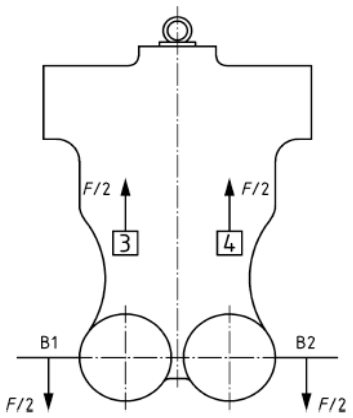
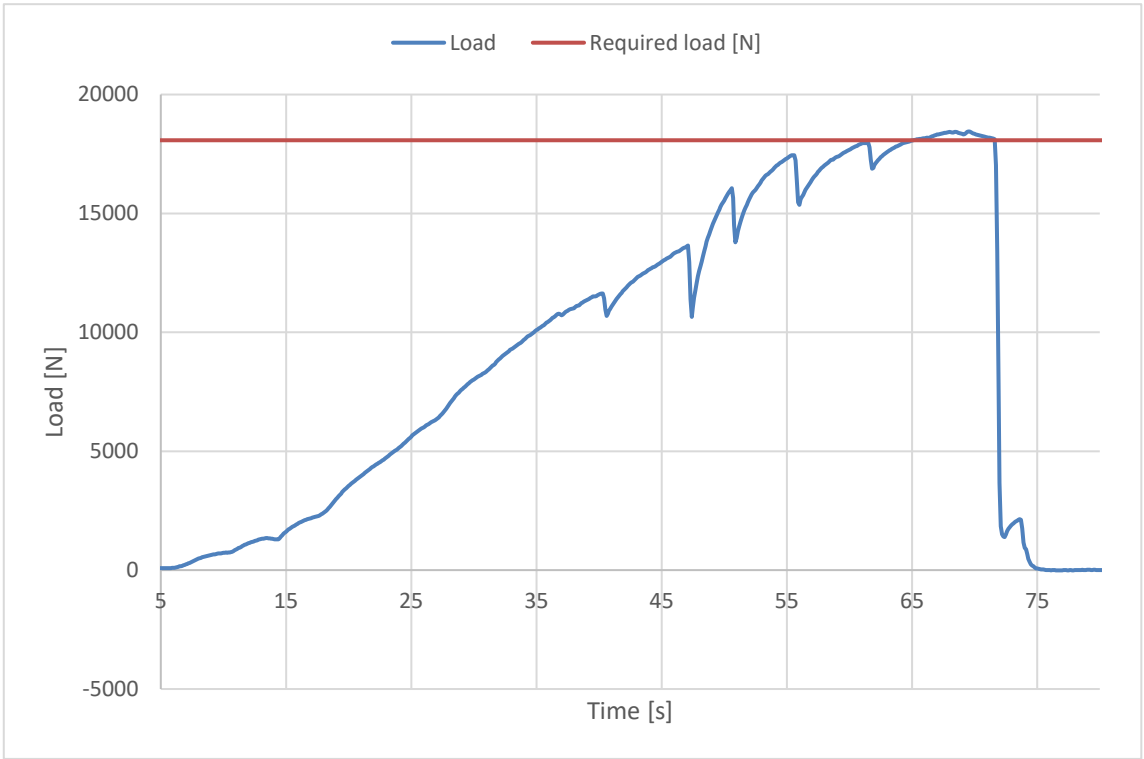
Inspection certificate number: **PH_512.2026** model: **PROGRESS 4**

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]	**18000**
Minimum test duration [s]	**5**
Result	
Test duration [s]	**6.5**
Any signs of structural failure	**No**
Slippery test OK	**Yes**
Test results	**POSITIVE**





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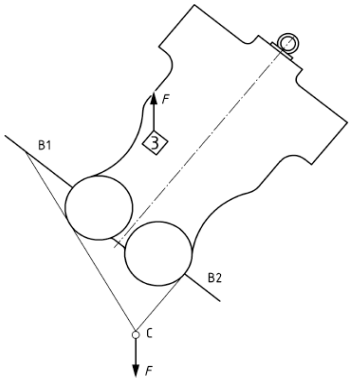
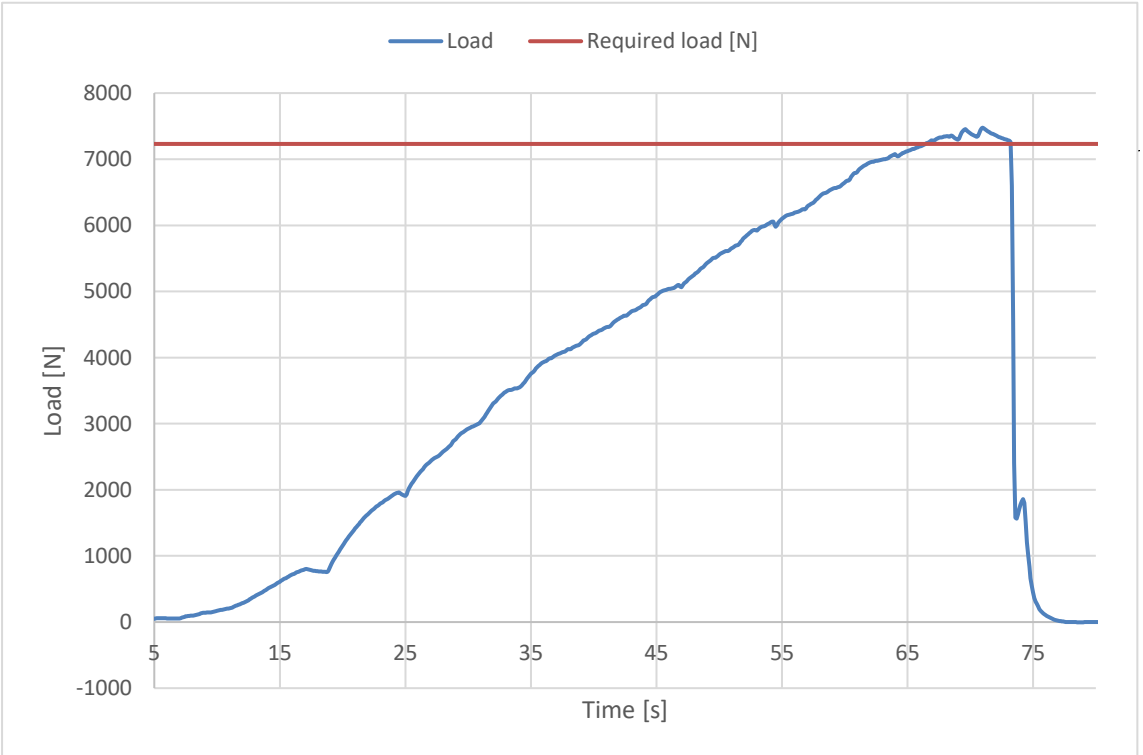
Inspection certificate number: **PH_512.2026** model: **PROGRESS 4**

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]	**7200**
Minimum test duration [s]	**5**
Result	
Test duration [s]	**6.8**
Any signs of structural failure	**No**
Test results	**POSITIVE**





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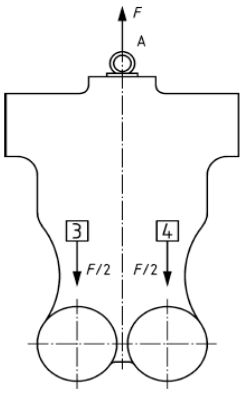
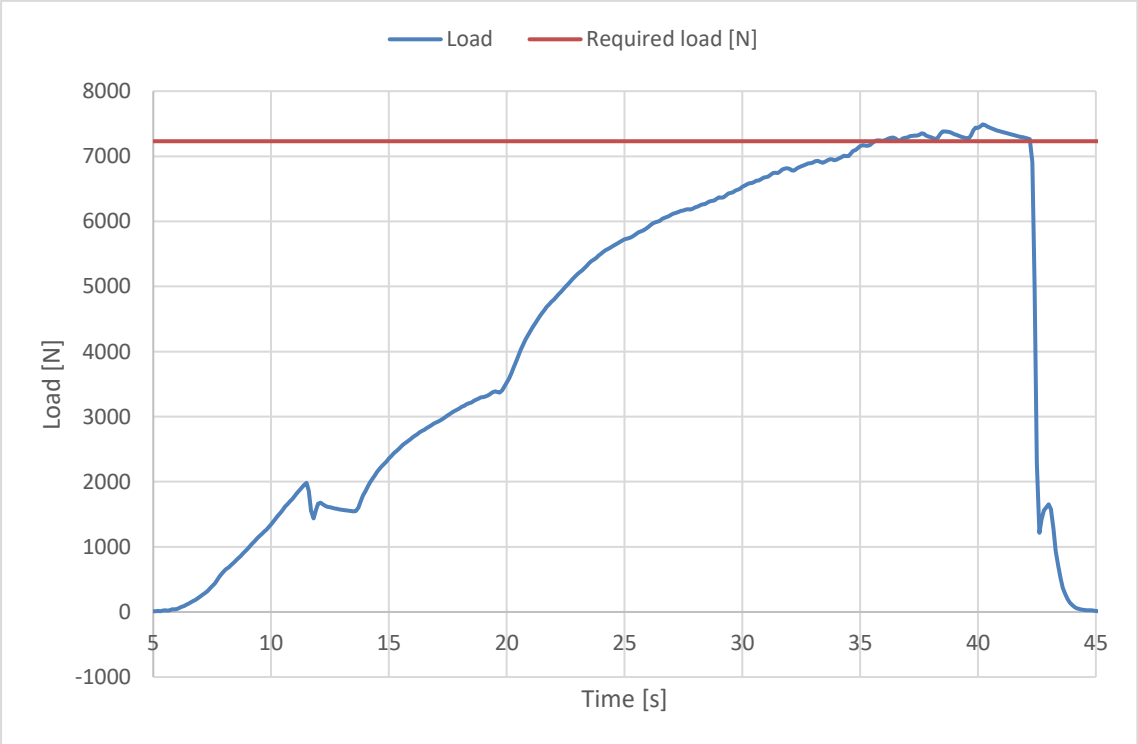
Harness Structural test **Test ID 06**

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]	**7200**
Minimum test duration [s]	**5**
Result	
Test duration [s]	**6.6**
Any signs of structural failure	**No**
Test results	**POSITIVE**





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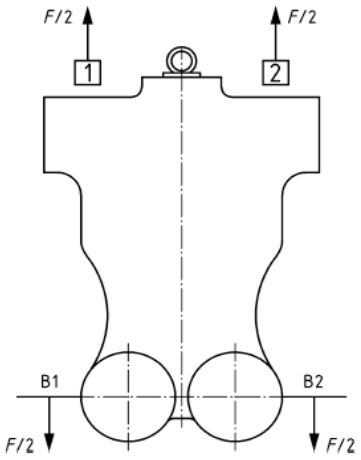
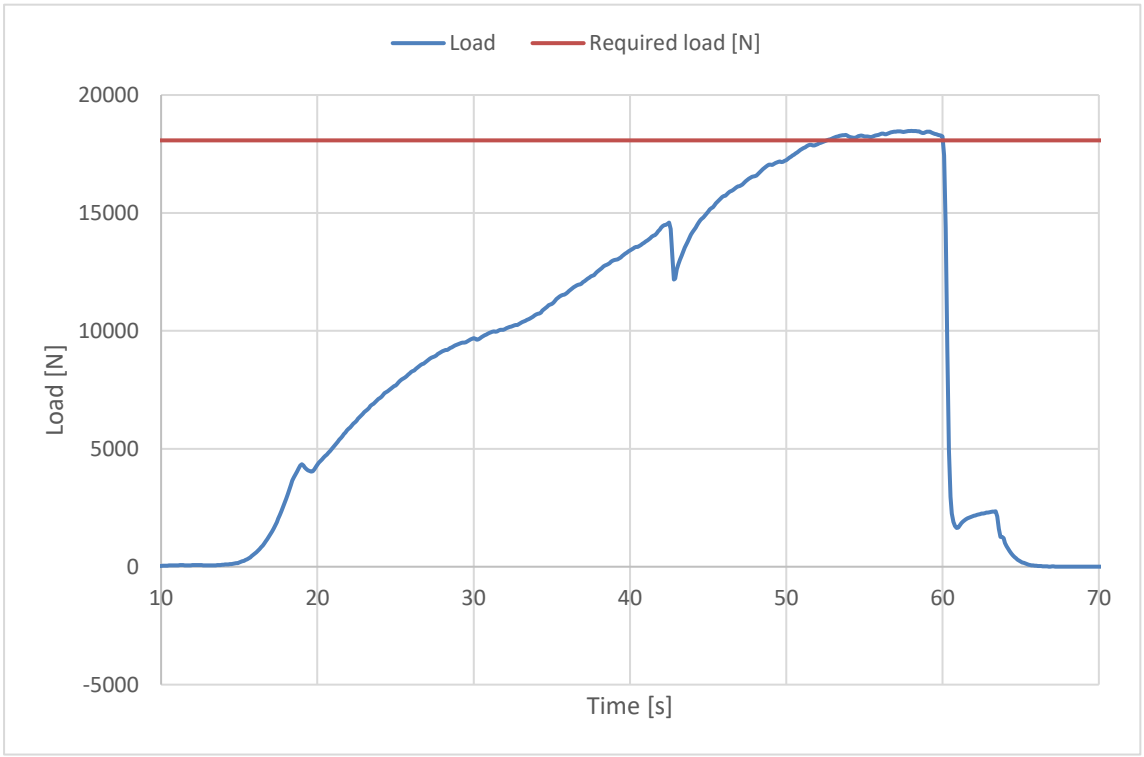
Inspection certificate number: **PH_512.2026** model: **PROGRESS 4**

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]	**18000**
Minimum test duration [s]	**5**
Result	
Test duration [s]	**7.5**
Any signs of structural failure	**No**
Slippery test OK	**Yes**
Test results	**POSITIVE**





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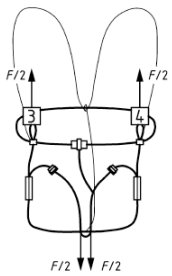
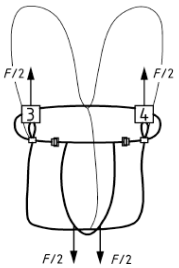
Harness Structural test **Test ID 12**

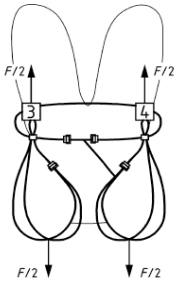
Standard	**EN 1651 / NfL 2024-2-785**
Reference in standard	**5.5.1.7**
Test setup	**Upright (landing) position load**
Attachment points	**Both main riser attachment (3, 4)**
Anchor points	**Both legstrap of harness (no dummy)**
Required load [g]	**6**
Required load [N]	**7200**
Minimum test duration [s]	**5**
Harness type	**type b**
Result	
Test duration [s]	**6.3**
Any signs of structural failure	**No**
Slippery test OK	**Yes**
Test results	**POSITIVE**



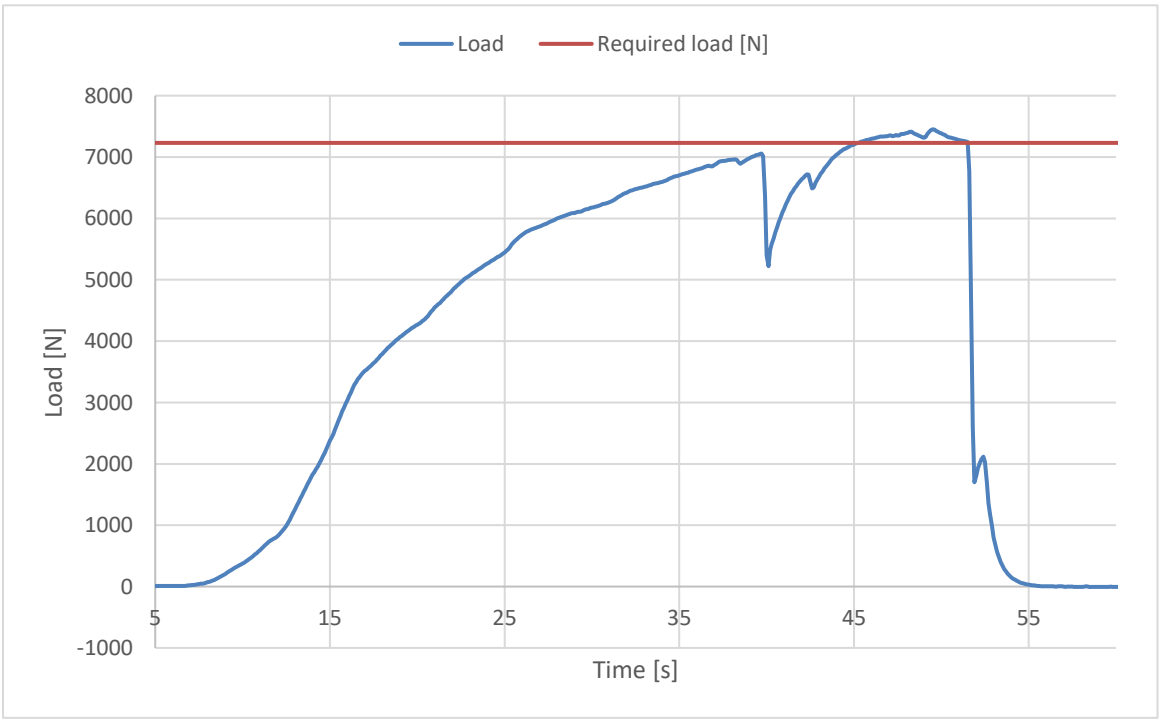
harness type a



harness type b



harness type c



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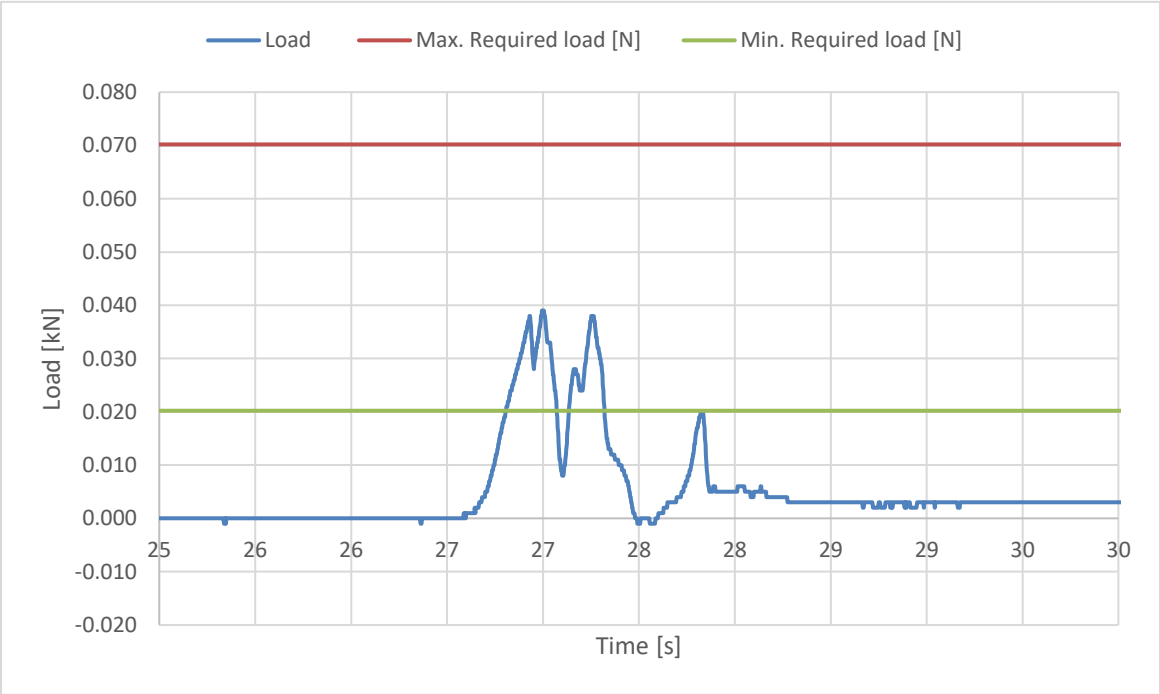
Inspection certificate number: **PH_512.2026** model: **PROGRESS 4**

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]	**39.20**	
Test results	**POSITIVE**	



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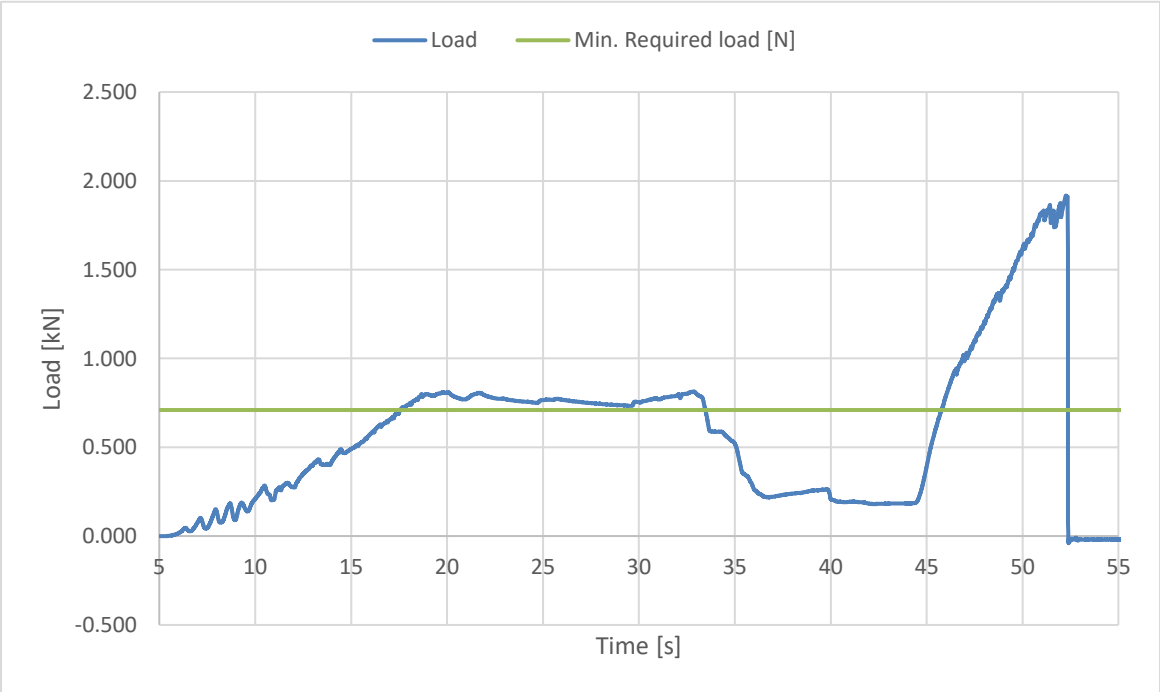
Inspection certificate number: **PH_512.2026** model: **PROGRESS 4**

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]:	**15.9**	
Breaking strength [N]	**1908.15**	
Test results	**POSITIVE**	



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Rescue deployment test for harness with integrated inner container **Test ID RDIC**

Standard	**NfL 2024-2-785**			
Reference	**4.3.2-4.3.6**			
Test setup WI 14	**Release of the container at maximum volume**			
Min volume (harness)	**5500**			
Max volume (harness)	**2500**			
		Volume [cm3]	Result	Test date
Emergeny Parachute	**Round**		n/a	
Emergeny Parachute	**Square/Triangle**	5500	POSITIVE	09.04.2026
Emergeny Parachute	**Rogallo**		n/a	
	Total Result		**POSITIVE**	

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