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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_484.2025**

Manufacturer data:

Manufacturer name:	**Gin Gliders Inc.**
Representative:	**Gin Seok Song**
Street:	**2318-32, Baegok-daero, Mohyeon-myeon**
Post code place:	**17036 Cheoin-gu, Yongin-si, Gyeonggi-do**
Country:	**Rep. of Korea**

Sample data:

Name:	**Verso 4**
Type:	**ABS**
Size:	**M**
Serial number:	**0325-KV4001M**
Impact pad type: (1)	**Airbag**
Clip-in weight [kg]:	**120**
Date of test:	**18.06.2025**

Atmosphere AGL:

[C°]	**24**
RH [%]	**49**
[hPa]	**987**

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)		5.5.1.9	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	V	5.5.1.8	Connecting element for rescue	n/a	24000	0.3	**POSITIVE**
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	**61.31**	**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	**1351.02**	**POSITIVE**

Rescue deployment test with integrated container for rescue system

Test id	-	NfL 2-565-20	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	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)

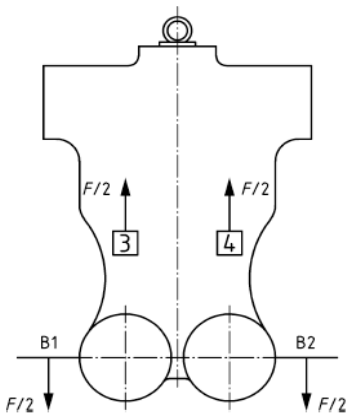
Calculated value in tests reports include the value minus the uncertainty (on safe side) / The uncertainty stated is the expanded uncertainty obtained by multiplying the standard uncertainty by the coverage factor k = 2. The value of the measurand lies within the assigned range of values with a probability of 95%

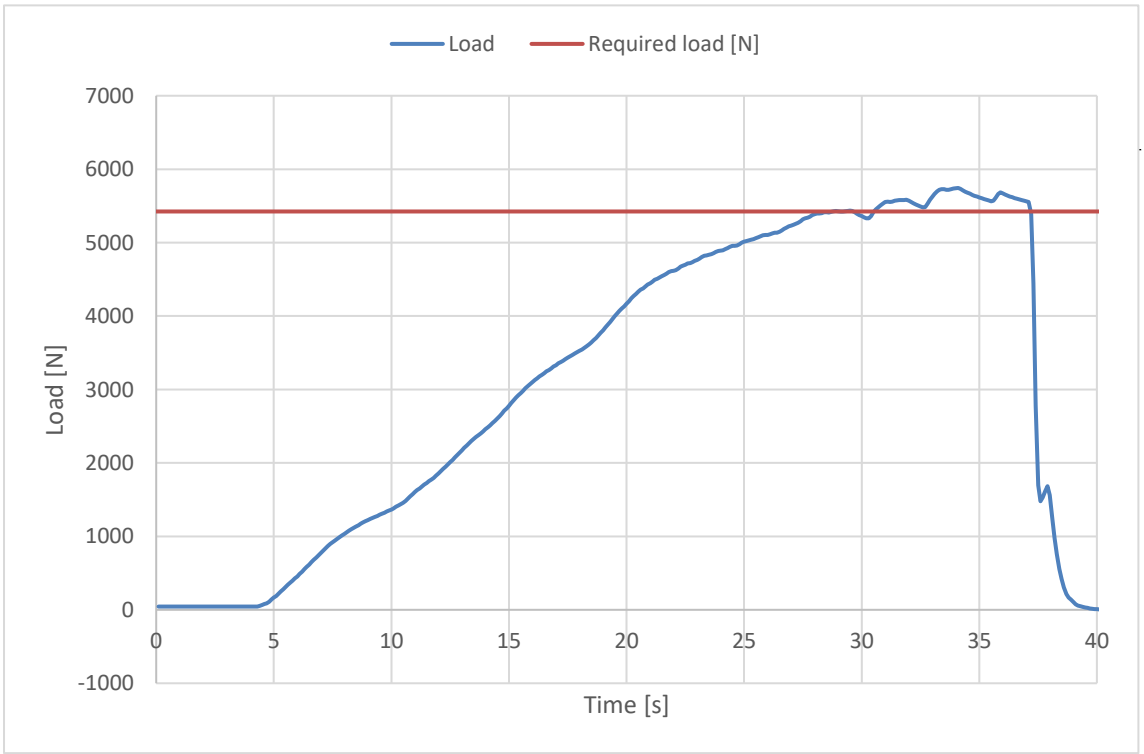
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Inspection certificate number: **PH_484.2025** model: **Verso 4**

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**



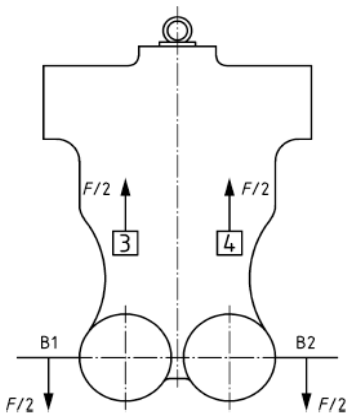


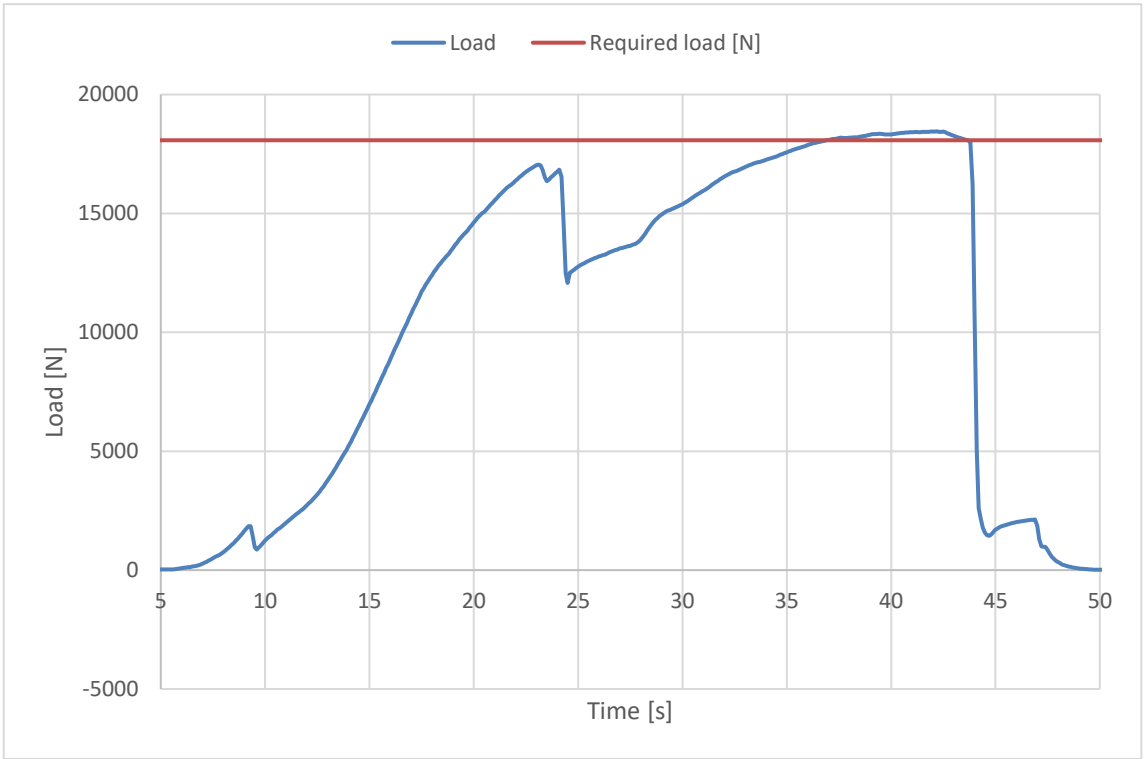
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Inspection certificate number: **PH_484.2025** model: **Verso 4**

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]	**6.7**
Any signs of structural failure	**No**
Slippery test OK	**Yes**
Test results	**POSITIVE**



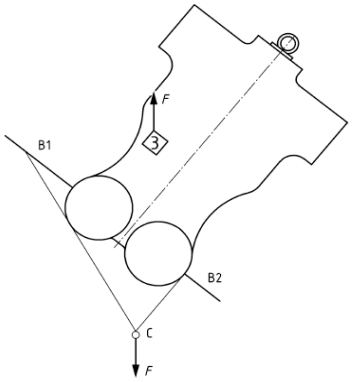


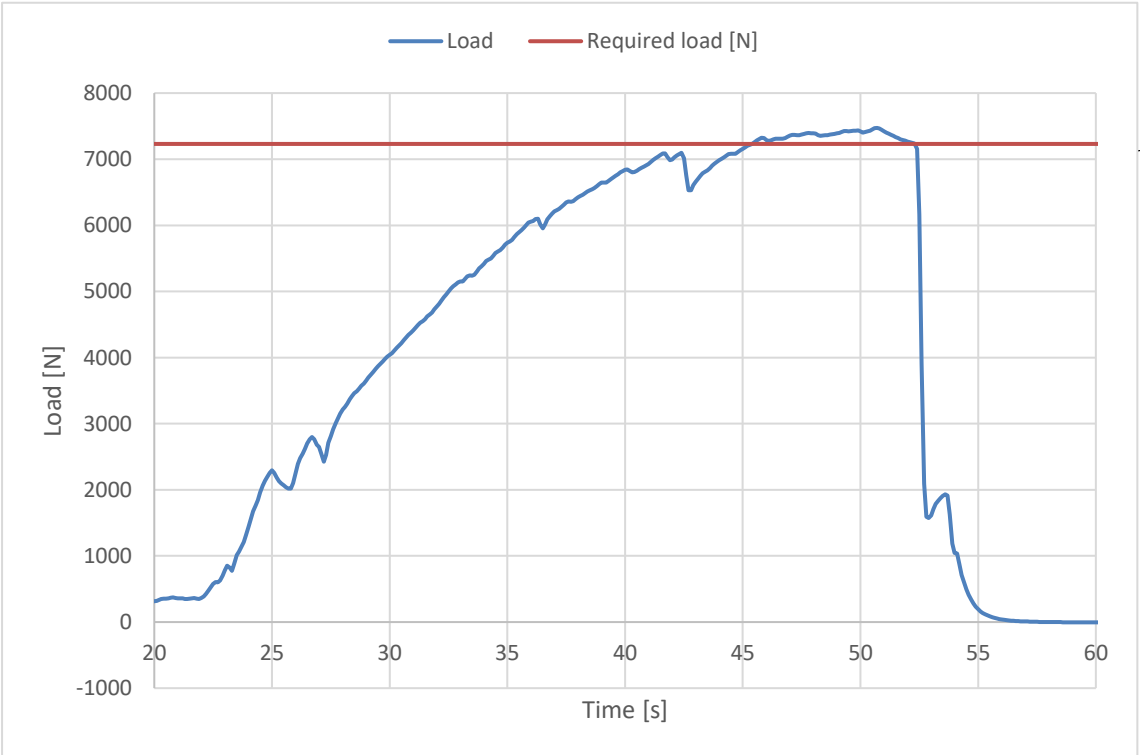
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Inspection certificate number: **PH_484.2025** model: **Verso 4**

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]	**7**
Any signs of structural failure	**No**
Test results	**POSITIVE**



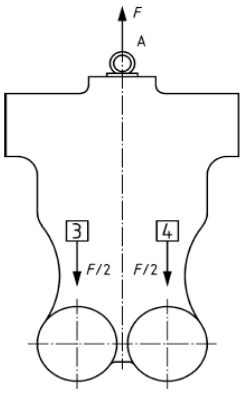


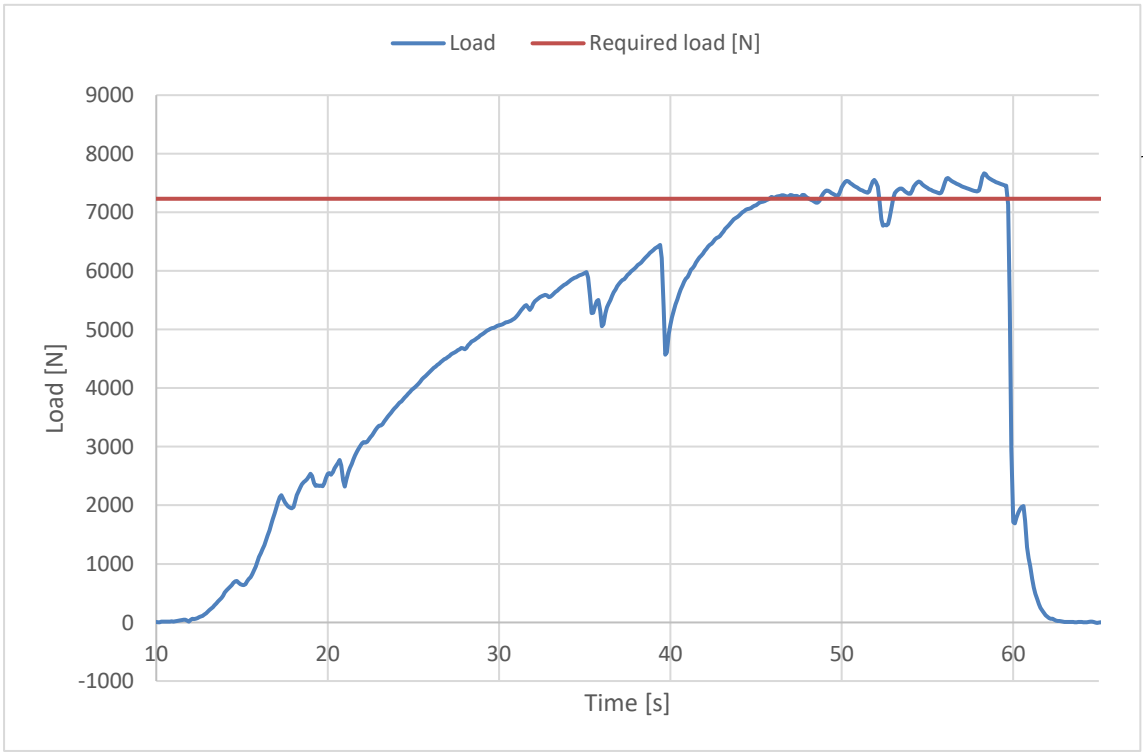
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Harness Structural test **Test ID 06**

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]	**6.7**
Any signs of structural failure	**No**
Test results	**POSITIVE**



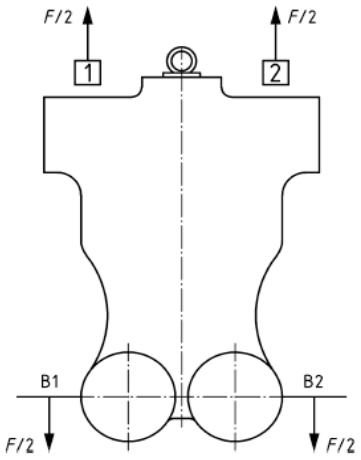


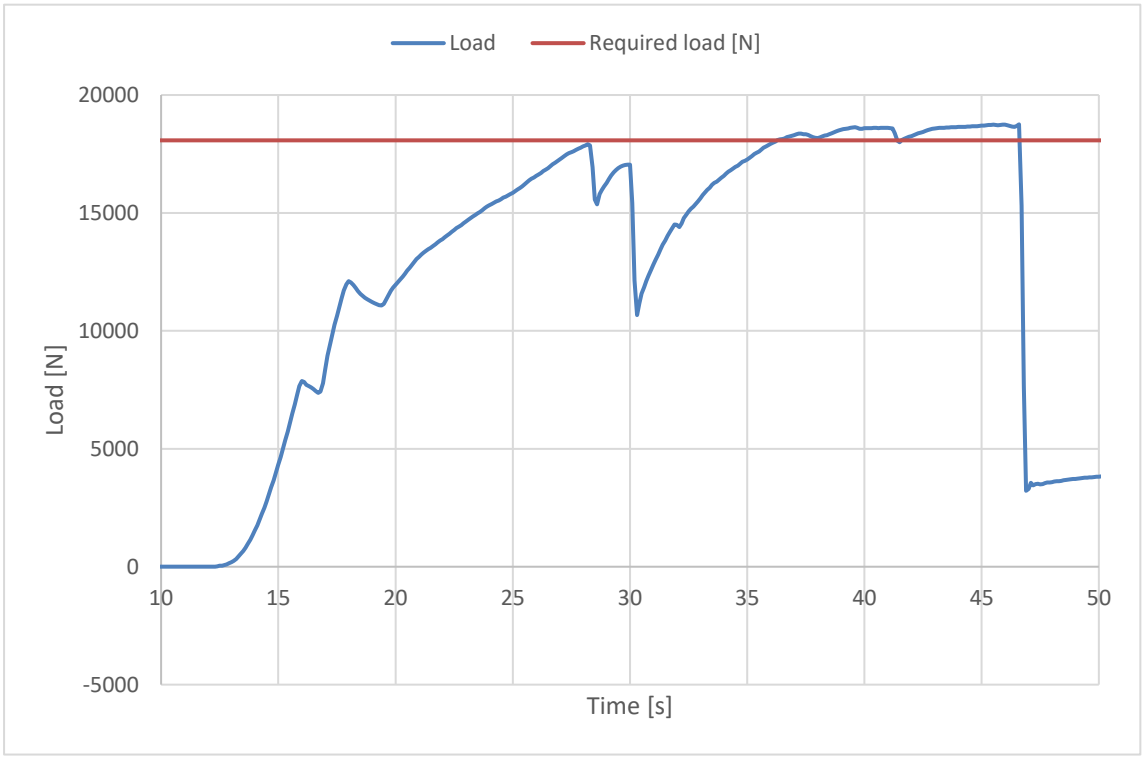
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Inspection certificate number: **PH_484.2025** model: **Verso 4**

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]	**5.1**
Any signs of structural failure	**No**
Slippery test OK	**Yes**
Test results	**POSITIVE**

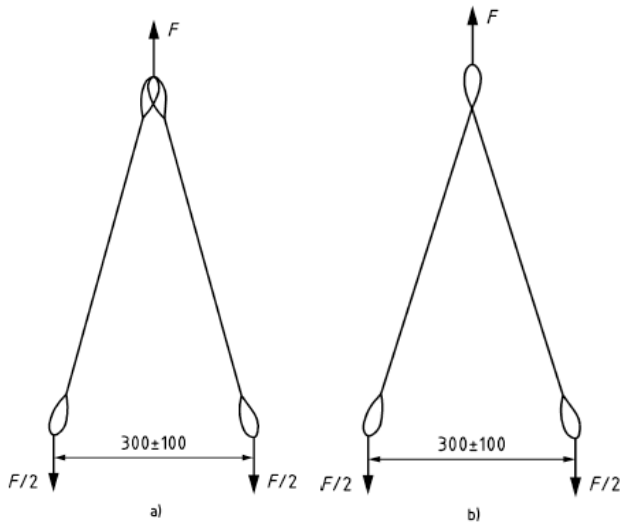


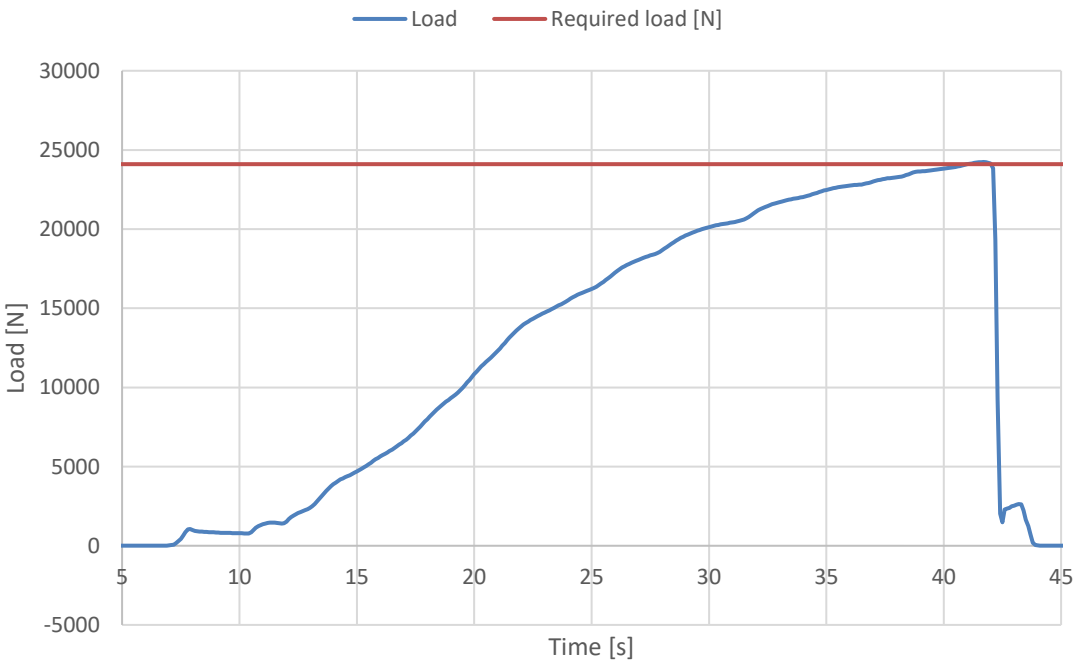


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Inspection certificate number: **PH_484.2025** model: **Verso 4**

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**	



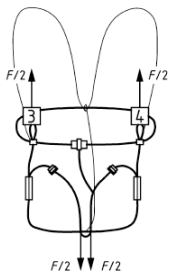


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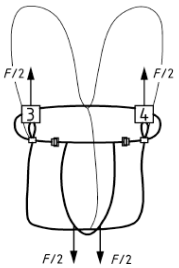
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Harness Structural test **Test ID 12**

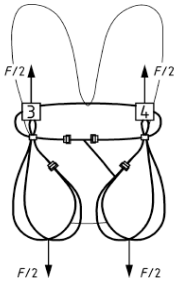
Standard	**EN 1651 / NfL 2024-2-785**
Reference in standard	**5.5.1.7**
Test setup	**Upright (landing) position load**
Attachment points	**Both main riser attachment (3, 4)**
Anchor points	**Both legstrap of harness (no dummy)**
Required load [g]	**6**
Required load [N]	**7200**
Minimum test duration [s]	**5**
Harness type	**type a**
Result	
Test duration [s]	**6.9**
Any signs of structural failure	**No**
Slippery test OK	**Yes**
Test results	**POSITIVE**



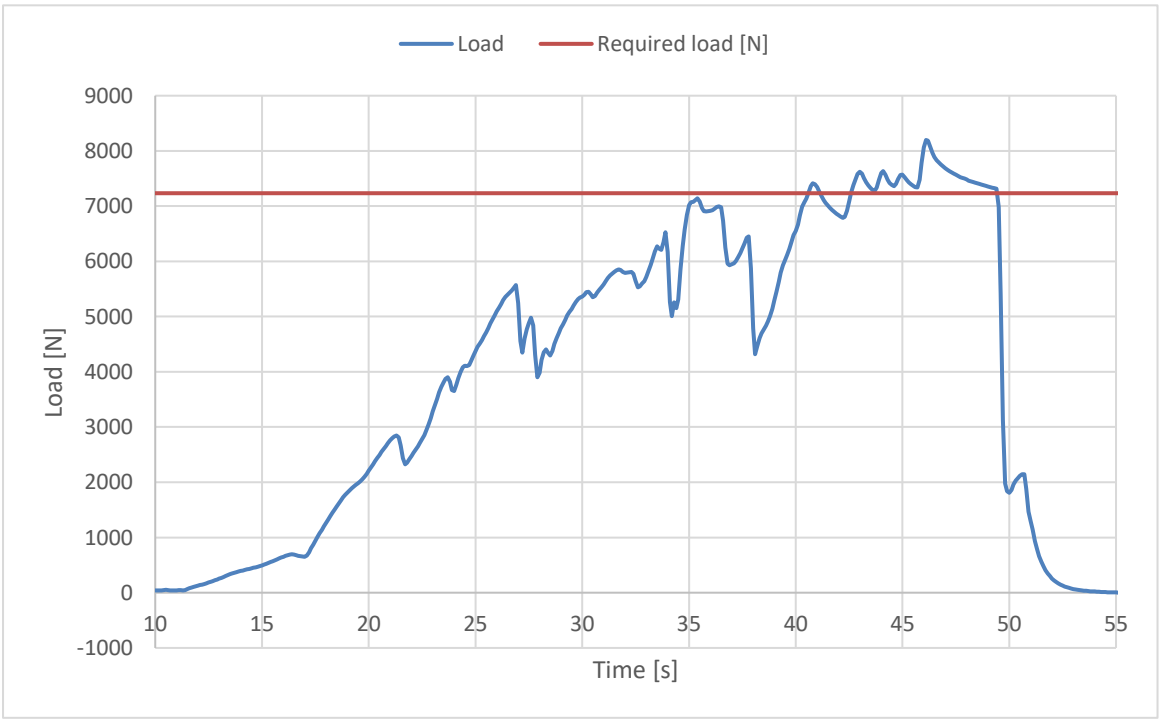
harness type a



harness type b



harness type c



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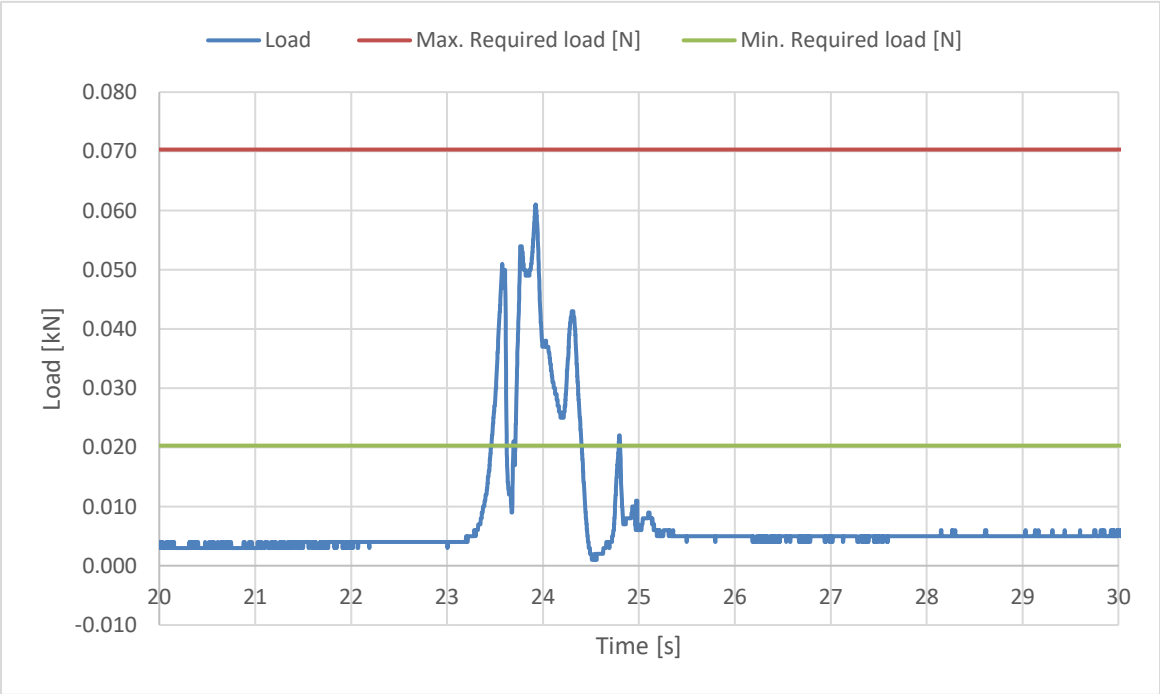
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Rescue Deployment Test		**Test ID RDT**
Standard	**EN 1651 / NfL 2024-2-785**	
Reference in standard	**5.5.1.11**	
Test setup	**Default flying position**	
Attachment points	**Sensor connect to handle, and pull in opening direction**	
	The test is to 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]	**61.31**	
Test results	**POSITIVE**	



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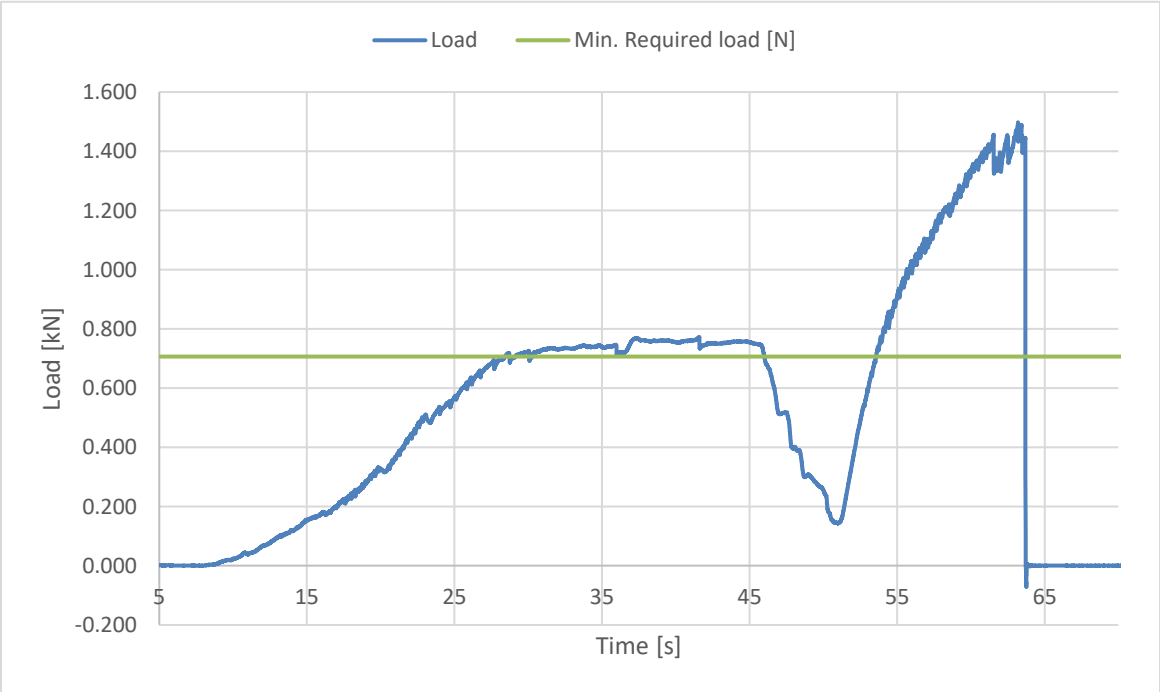
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Rescue Deployment Handle strength test		**Test ID RST**
Standard	**EN 1651 / NfL 2024-2-785**	
Reference in standard	**5.3.2**	
Test setup	**Two end points of handle**	
Attachment points	**Sensor connect to end of handle, pull on the other side**	
	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]:	**19.6**	
Breaking strength [N]	**1351.02**	
Test results	**POSITIVE**	



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Inspection certificate number: **PH_484.2025** model: **Verso 4**

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

Standard	**4.3.2-4.3.6**			
Reference	**NfL 2-565-20**			
Test setup WI 14	**Release of the container at maximum volume**			
Min volume (harness)	**2000**			
Max volume (harness)	**5000**			
		Volume [cm3]	Result	Test date
Emergeny Parachute	**Round**		n/a	
Emergeny Parachute	**Square/Triangle**	5000	POSITIVE	05.06.2025
Emergeny Parachute	**Rogallo**		n/a	
	Total Result		**POSITIVE**	

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