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Rte du Pré-au-Comte 8 | CH-1844 Villeneuve

Test laboratory for paragliders, paraglider harnesses
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paragliding by air turquoise

Harness Structural test Report - EN

Inspection certificate number: **PH_520.2026**

Manufacturer data:		**Sample data:**	
Manufacturer name:	**Gin Gliders Inc.**	Name:	**Genie Race 6**
Representative:	**Gin Seok Song**		
Street:	**2318-32, Baegok-daero, Mohyeon-myeon**	Size:	**M**
Post code place:	**17036 Cheoin-gu, Yongin-si, Gyeonggi-do**	Serial number:	**WR3600**
Country:	**Rep. of Korea**	Impact pad: [1]	**Yes**
		Clip-in weight [kg]:	**120**
		Date of test:	**30.07.2026**

Atmosphere AGL:

[C°]	**25**
RH [%]	**43**
[hPa]	**977**

Summary of Structural test

Test id	-	EN 1651	Setup	Req. Load [g]	Req. Load [N]	Min. duration [s]	Result
01 [3]	V	5.5.1.1	Positive symmetric load (Slippage)	4.5	5297.4	5	**POSITIVE**
03 [3]	V	5.5.1.1b	Positive symmetric load	15	17658	5	**POSITIVE**
05	V	5.5.1.2	Positive asymmetric load	6	7063.2	5	**POSITIVE**
06	V	5.5.1.6	Negative symmetric load	6	7063.2	5	**POSITIVE**
08 [5]		5.5.1.9	Anti falling-out system	4.5	5297.4	5	**n/a**
09 [3][4]	V	5.5.1.3	Positive symmetric load rescue points	15	17658	5	**POSITIVE**
10 [3][4]		5.5.1.4	Negative symmetric load rescue points	15	17658	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	7063.2	5	**POSITIVE**
14		5.5.1.5	Negative symmetric load towing points	5	5886	5	**n/a**

Rescue deployment test

Test id	-	EN 1651	Setup	Min. load [N]	Max. load [N]	Measured [N]	Result
RDT R	V	5.5.1.11	Default flying position	20	70	**51.26**	**POSITIVE**
RDT L	V	5.5.1.11	Default flying position	20	70	**61.31**	**POSITIVE**

Rescue Deployment Handle strength test

Test id	-	EN 12491	Setup	Req. Load [N]	Min. duration [s]	Break. strength [N]	Result
RST	V	5.3.2	Two end points of handle	700	10	**764.05**	**POSITIVE**

Manufacturer	Instrument	Type no	S/N	Validity
HBM	Load Sensor GE01	1-S9M/50KN-1	31314643	24.03.30
Burster / MTS	Load sensor 10kN SL2	8431-6010-N000S000	593507	26.06.30
JDC elec	Geos n°11 Skywatch	Geos n°11	Unit11	24.07.30

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

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 if integrated or 95.14 if not integrated 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)

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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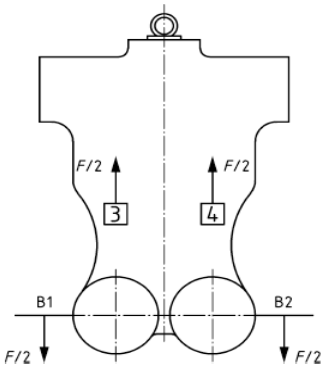
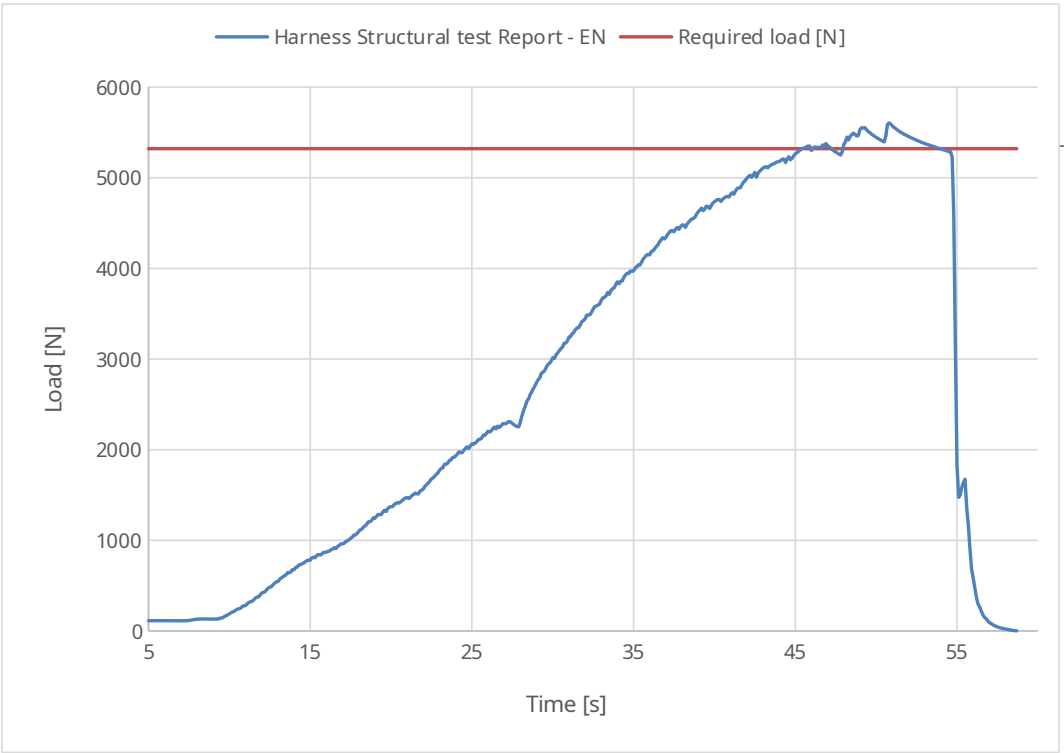
Inspection certificate number: **PH_520.2026** model: **Genie Race 6**

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]	**5297.4**
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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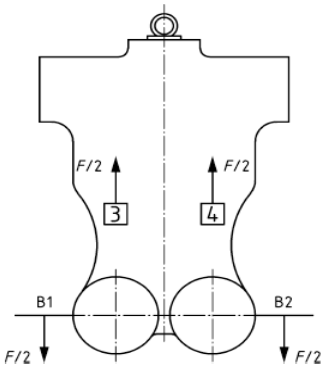
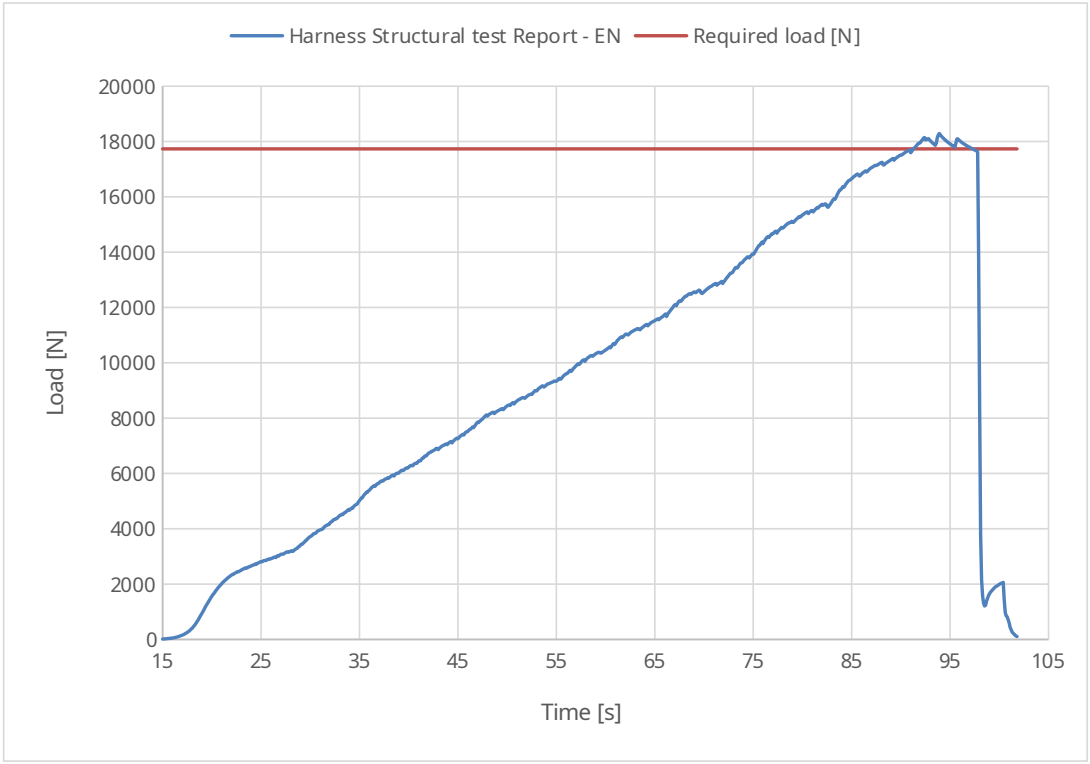
Inspection certificate number: **PH_520.2026** model: **Genie Race 6**

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]	**17658**
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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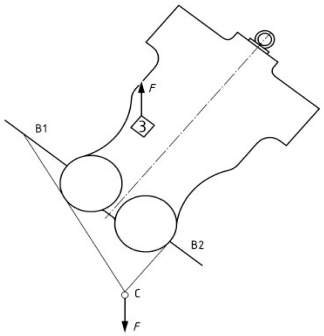
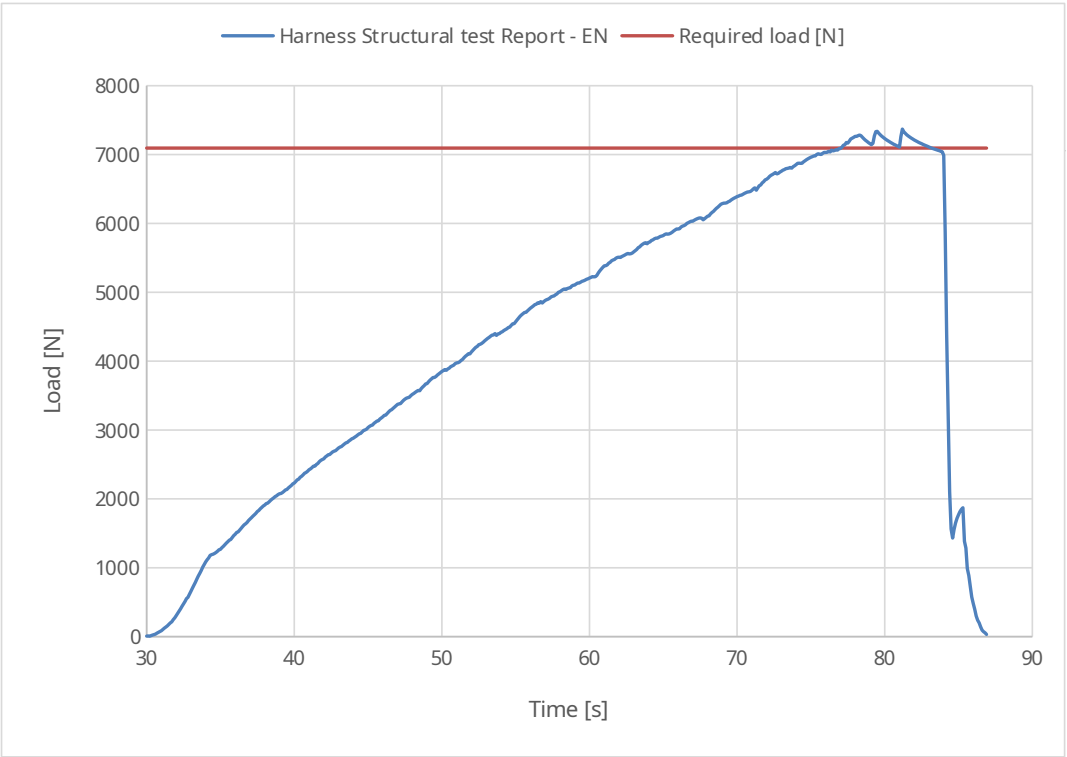
Inspection certificate number: **PH_520.2026** model: **Genie Race 6**

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]	**7063.2**
Minimum test duration [s]	**5**
Result	
Test duration [s]	**6.1**
Any signs of structural failure	**No**
Test results	**POSITIVE**





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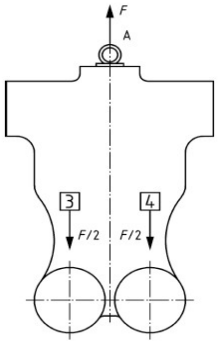
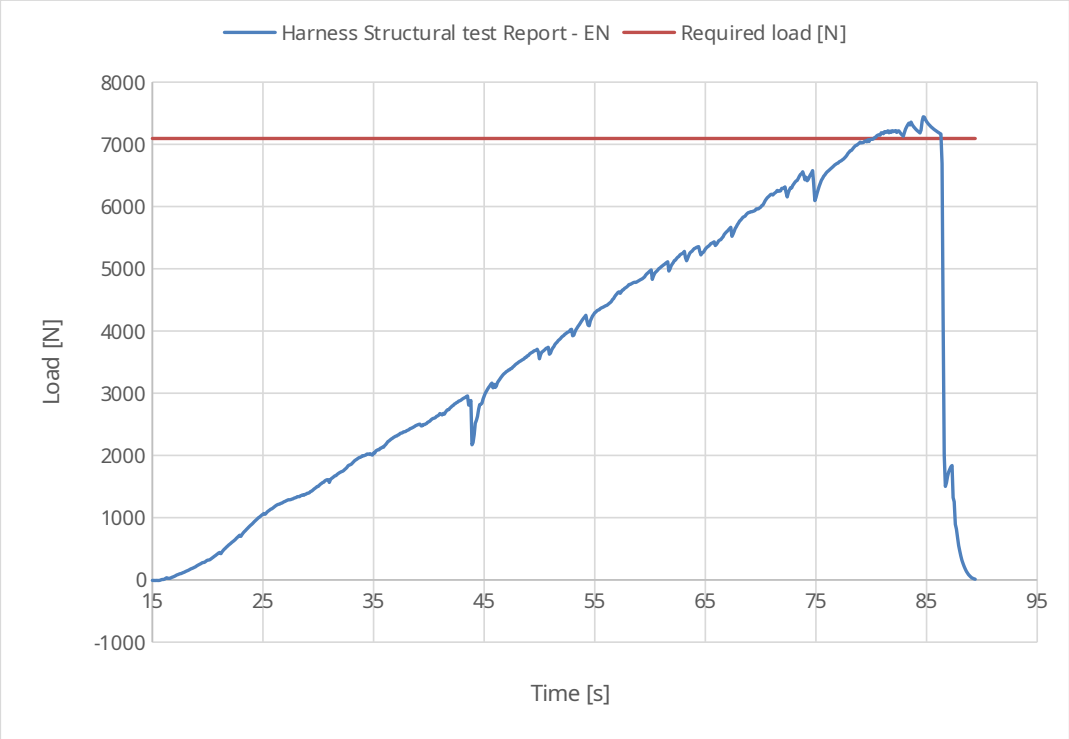
Inspection certificate number: **PH_520.2026** model: **Genie Race 6**

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]	**7063.2**
Minimum test duration [s]	**5**
Result	
Test duration [s]	**6.1**
Any signs of structural failure	**No**
Test results	**POSITIVE**





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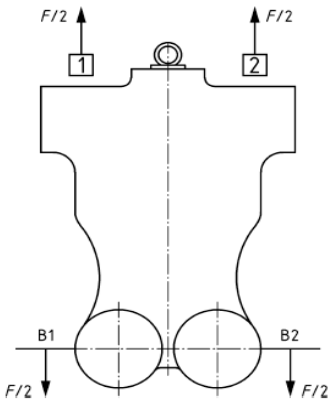
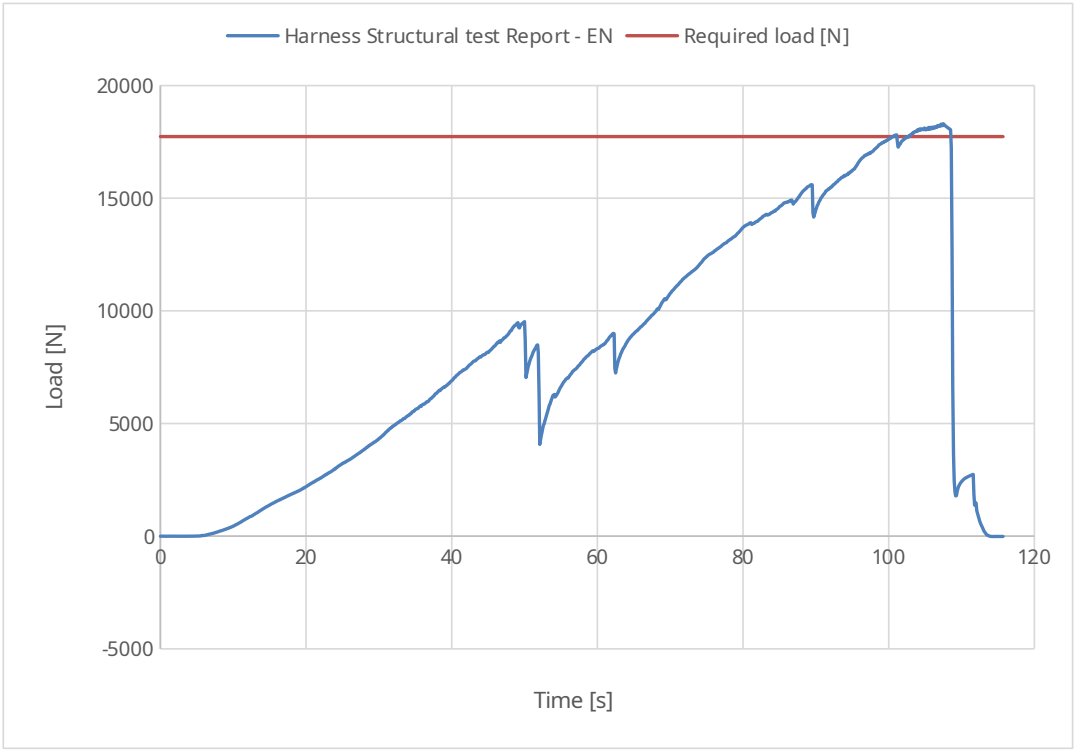
Inspection certificate number: **PH_520.2026** model: **Genie Race 6**

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]	**17658**
Minimum test duration [s]	**5**
Result	
Test duration [s]	**5.8**
Any signs of structural failure	**No**
Slippery test OK	**Yes**
Test results	**POSITIVE**





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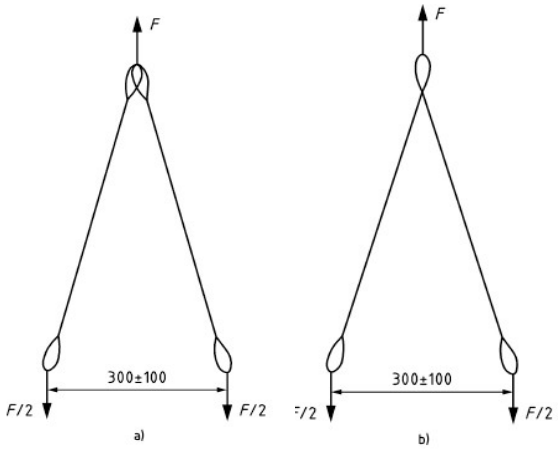
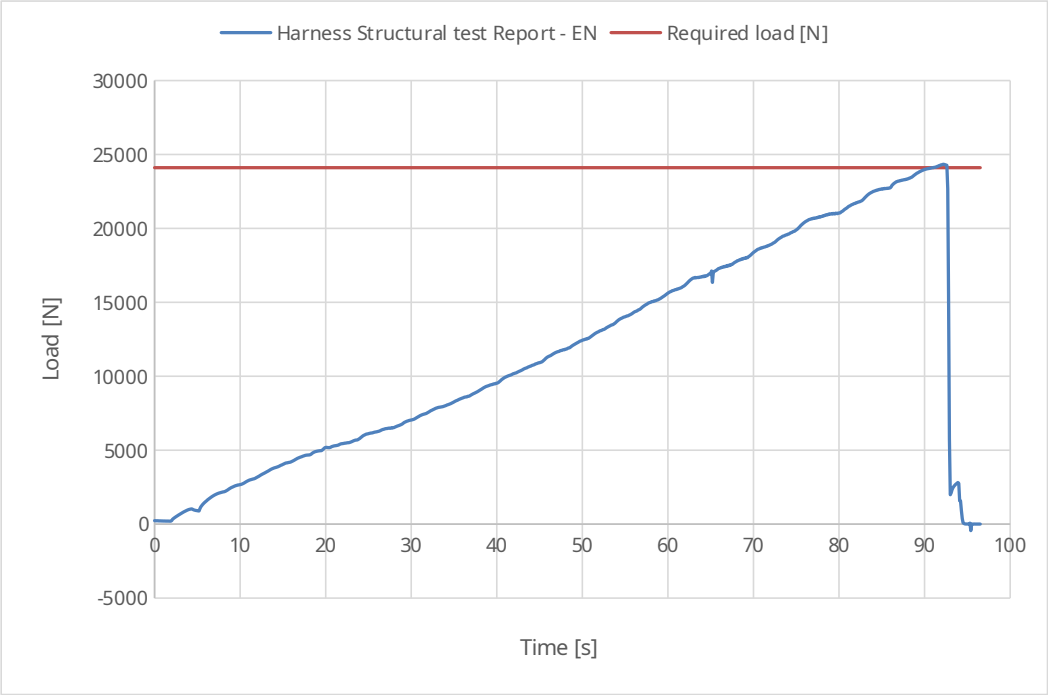
Harness Structural test **Test ID 11**

Standard	**EN 1651**
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]	**1.7**
Any signs of structural failure	**No**
Test results	**POSITIVE**





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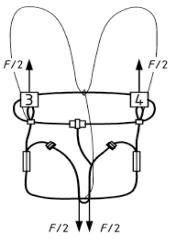
Harness Structural test **Test ID 12**

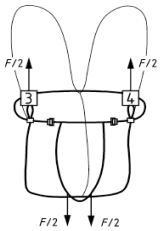
Standard	**EN 1651**
Reference in standard	**5.5.1.7**
Test setup	**Upright (landing) position load**
Attachment points	**Both main riser attachment (3, 4)**
Anchor points	**Both legstrap of harness (no dummy)**
Required load [g]	**6**
Required load [N]	**7063.2**
Minimum test duration [s]	**5**
Harness type	**type b**

Result

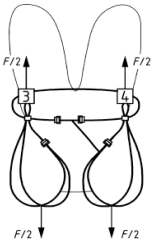
Test duration [s]	**6.7**
Any signs of structural failure	**No**
Slippery test OK	**Yes**
Test results	**POSITIVE**



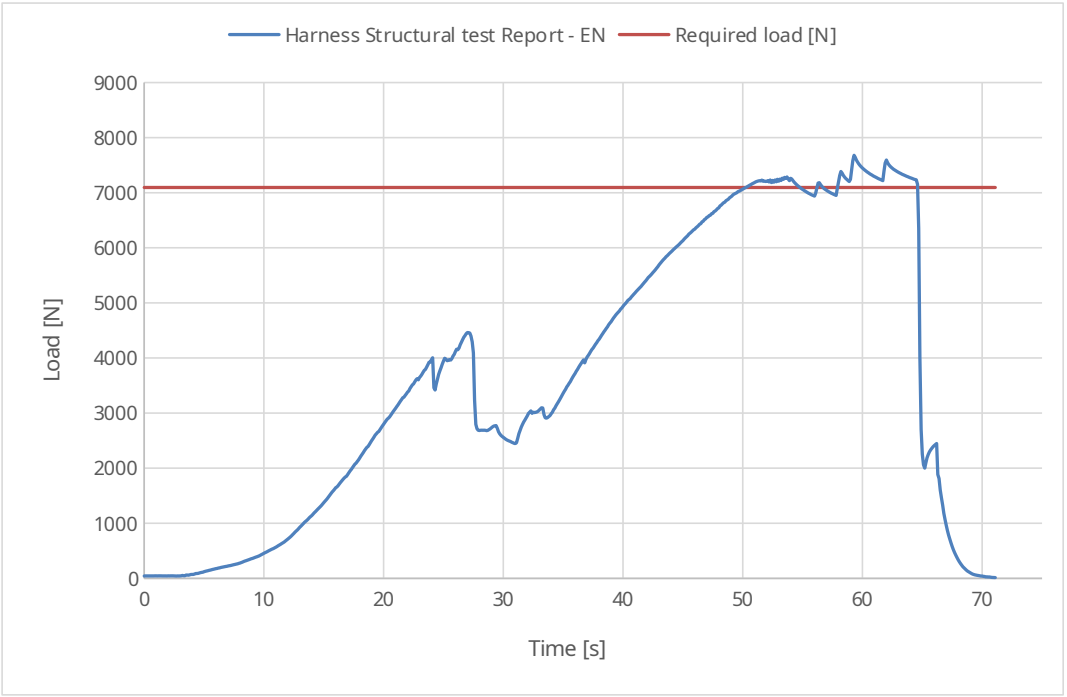
harness type a



harness type b



harness type c



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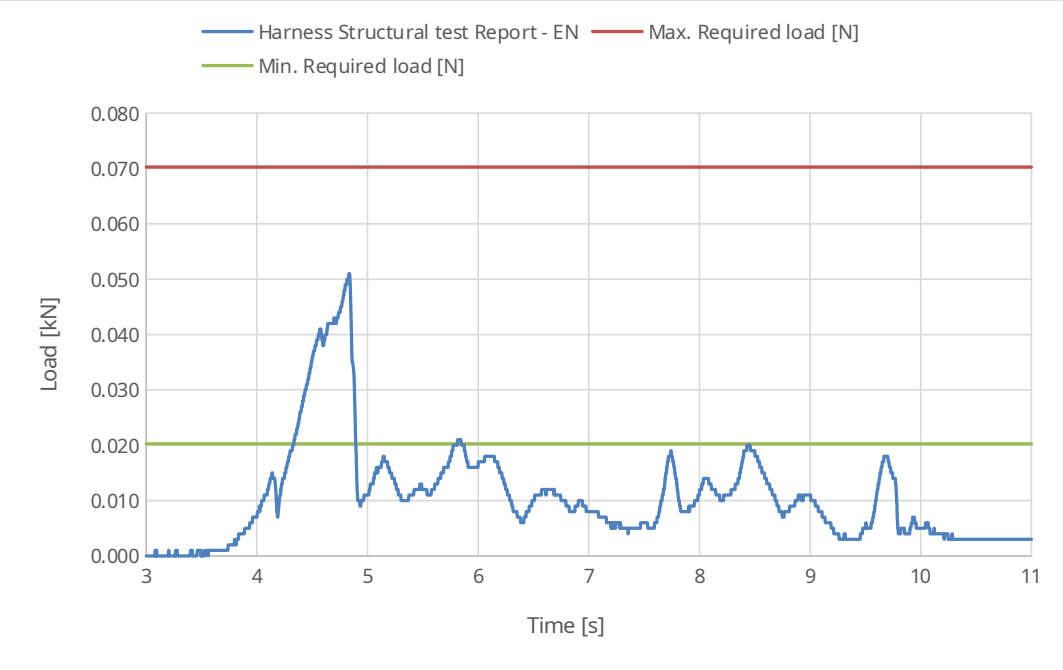
Inspection certificate number: **PH_520.2026** model: **Genie Race 6**

Rescue Deployment Test **Test ID RDT**

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]	**51.26**
Test results	**POSITIVE**



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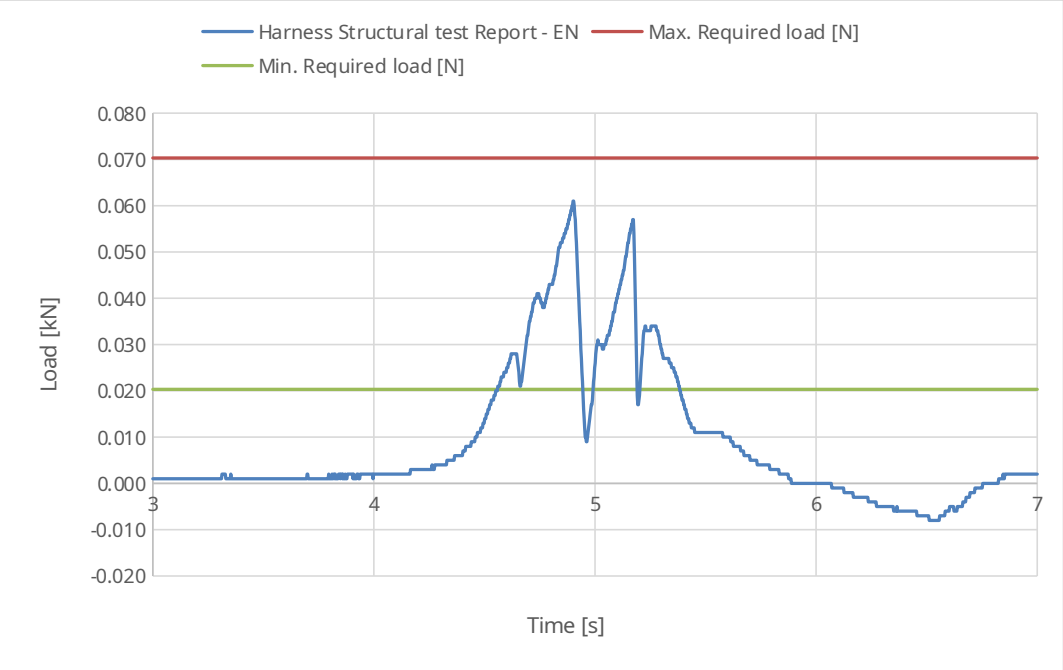
Inspection certificate number: **PH_520.2026** model: **Genie Race 6**

Rescue Deployment Test **Test ID RDT**

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]	**61.31**
Test results	**POSITIVE**



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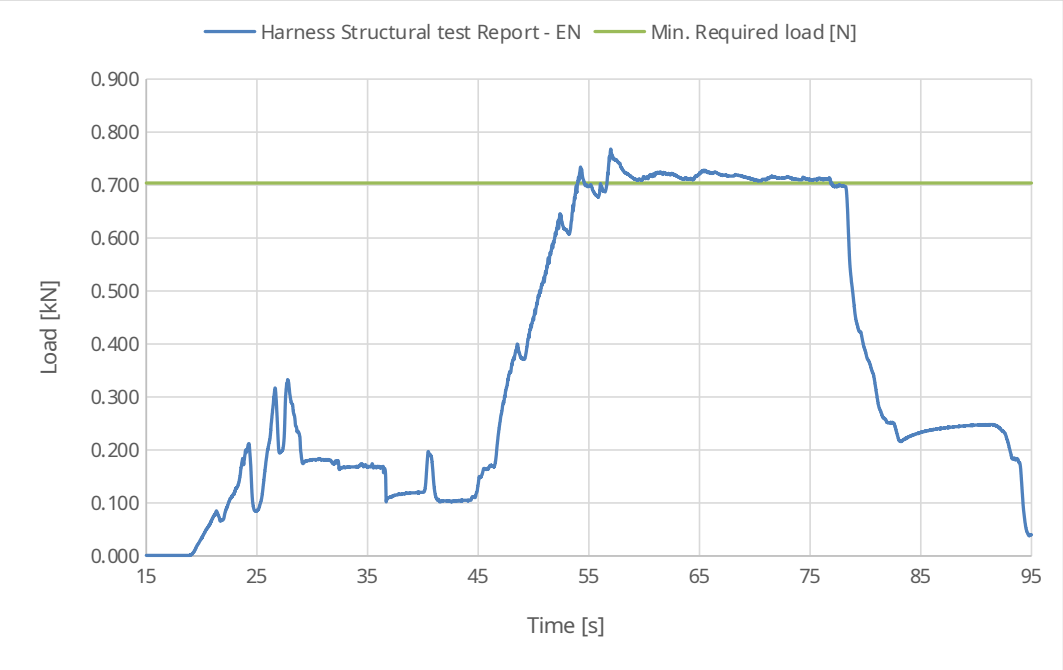
Inspection certificate number: **PH_520.2026** model: **Genie Race 6**

Rescue Deployment Handle strength test **Test ID RST**

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]:	**20.2**
Breaking strength [N]	**764.05**
Test results	**POSITIVE**



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