

Harness Structural test Report - NfL

Inspection certificate number: **PH_343.2021**

Manufacturer data:

Manufacturer name: **Flare**
 Representative: **Daniel Ziemer**
 Street: **Windeckstrasse 4**
 Post code place: **83250 Marquarstein**
 Country: **Germany**

Sample data:

Name: **Contour**
 Type: **ABS**
 Size: **M**
 Serial number: **SPHAWH01-4020-0001**
 Impact pad type: ⁽¹⁾ **Inflatable**
 Clip-in weight [kg]: **100**
 Integrated container: **No**
 Date of test: **18.06.2020**

Atmosphere AGL:

[C°]	22.1
RH [%]	50
[hPa]	971.9

Summary of Structural test

Test id	- Ref.	Setup	Req. Load [g]	Req. Load [N]	Min. duration [s]	Result
02	V 5.3.2.1	Default flying position	6	6000	10	POSITIVE
03	V 5.3.2.2	Default flying position	15	15000	5	POSITIVE
04	V 5.3.2.3	Asymmetric, one riser	6	6000	10	POSITIVE
07	V 5.3.2.6	Asymmetric, negative	4.5	4500	10	POSITIVE
09	5.3.2.4	Rescue attachments	15	15000	5	n/a
13	V 5.3.2.7	Flying position before landing	15	15000	5	POSITIVE
14	5.3.2.5	Towing	5	5000	10	n/a

Rescue deployment test

Test id	- NfL 2-565-20	Setup	Min load [N]	Max. load [N]	Measured [N]	Result
RRDT	6.1.5	Default flying position	20	70	0.00	n/a

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	0.00	n/a

Rescue deployment test with integrated container for rescue system

Test id	- NfL 2-565-20	Setup	Result
RDIC	4.3.2-4.3.6	Release of the container at maximum volume	n/a

Manufacturer	Instrument	Type no	S/N	Validity
HBM	Load Sensor GE01	1-S9M/50KN-1	31314643	04.09.2023
Burster / MTS	Load sensor 10kN SL2	8431-6010-N000S000	593507	21.04.2026
JDC elec	Geos n°11 Skywatch	Geos n°11	Unit11	18.06.2025

Air Turquoise SA, having thoroughly assessed the sample mentioned above, declares it was found conform with
 Airworthiness Requirements **NfL 2-565-20 - EN12491:2015 5.3.2**

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

Calculated values 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%.

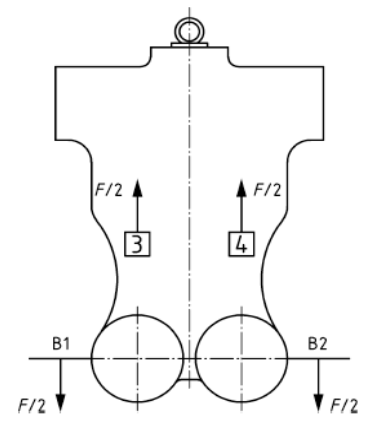
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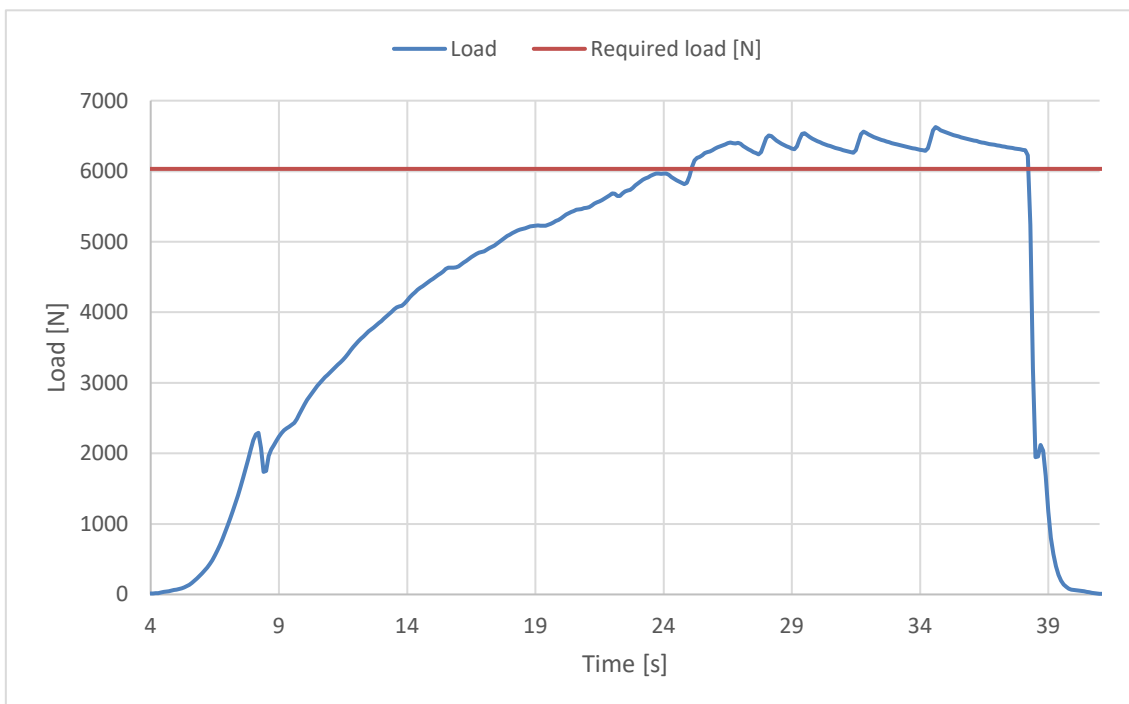
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model: **Contour**

Harness Structural test

Test ID 02

Standard	NfL 2-565-20	
Reference	5.3.2.1	
Test setup	Default flying position	
Attachment points	Both main riser attachment (3,4)	
Anchor points	Dummy (B1, B2)	
Required load [g]	6	
Required load [N]	6000	
Minimum test duration [s]	10	
Result		
Test duration [s]	13.2	
Any signs of structural failure	No	
Test results	POSITIVE	



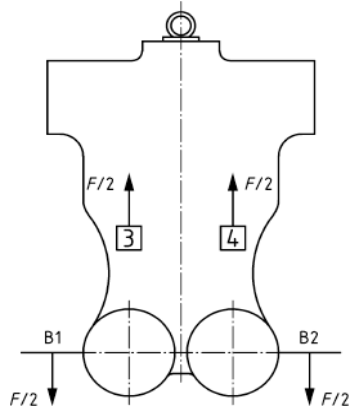
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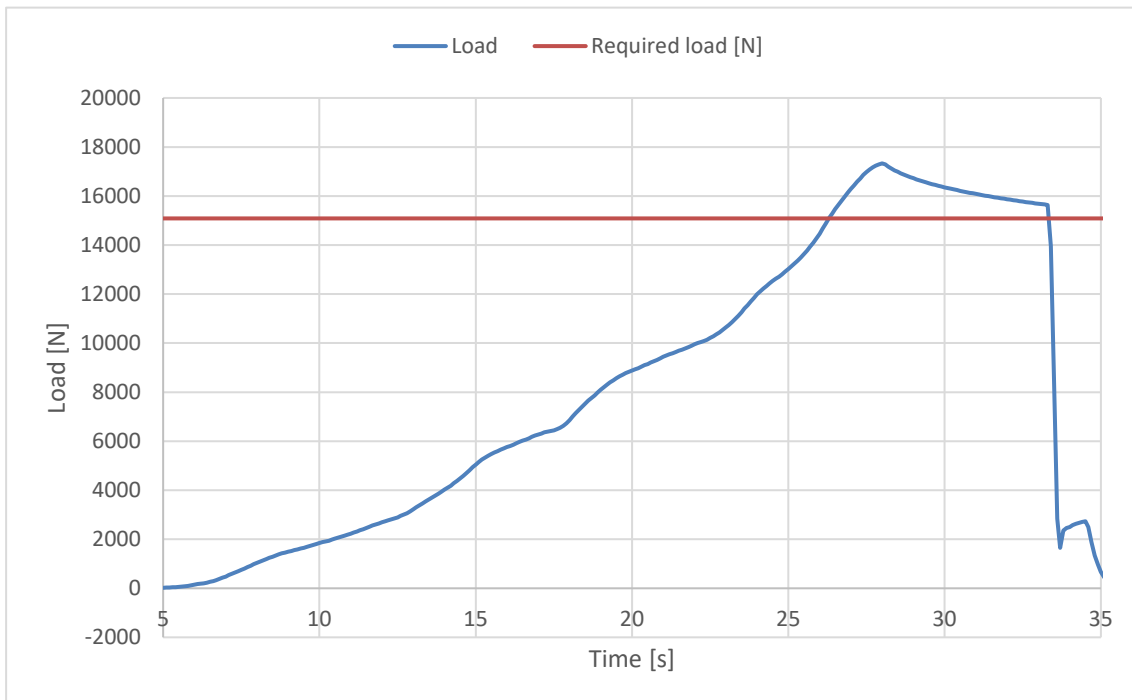
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model: **Contour**

Harness Structural test

Test ID 03

Standard	NfL 2-565-20	
Reference	5.3.2.2	
Test setup	Default flying position	
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]	7.1	
Any signs of structural failure	No	
Test results	POSITIVE	



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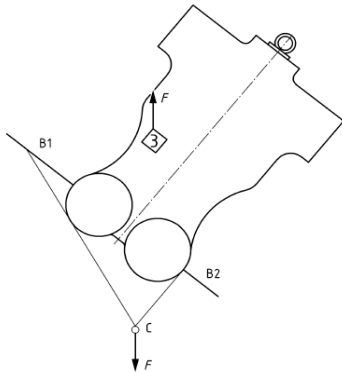
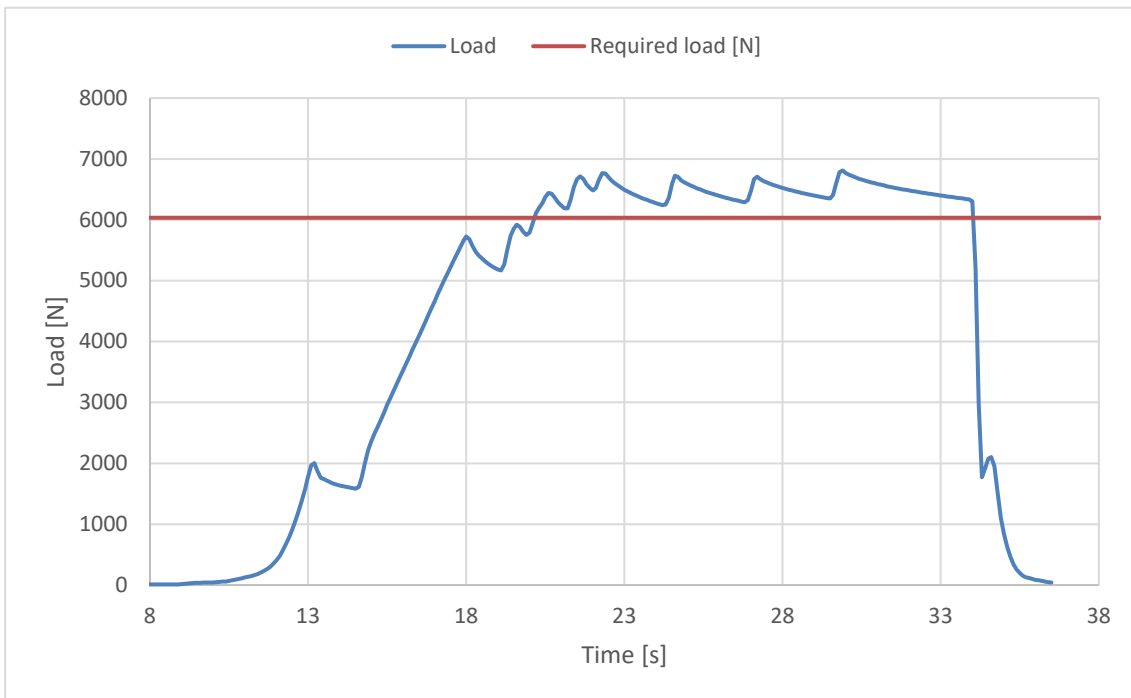
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model: **Contour**

Harness Structural test

Test ID 04

Standard	NfL 2-565-20
Reference	5.3.2.3
Test setup	Asymmetric, one riser
Attachment points	One main riser attachment (3)
Anchor points	Dummy (B1,B2)
Required load [g]	6
Required load [N]	6000
Minimum test duration [s]	10
Result	
Test duration [s]	13.9
Any signs of structural failure	No
Test results	POSITIVE

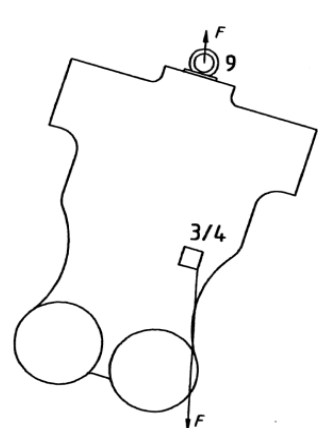
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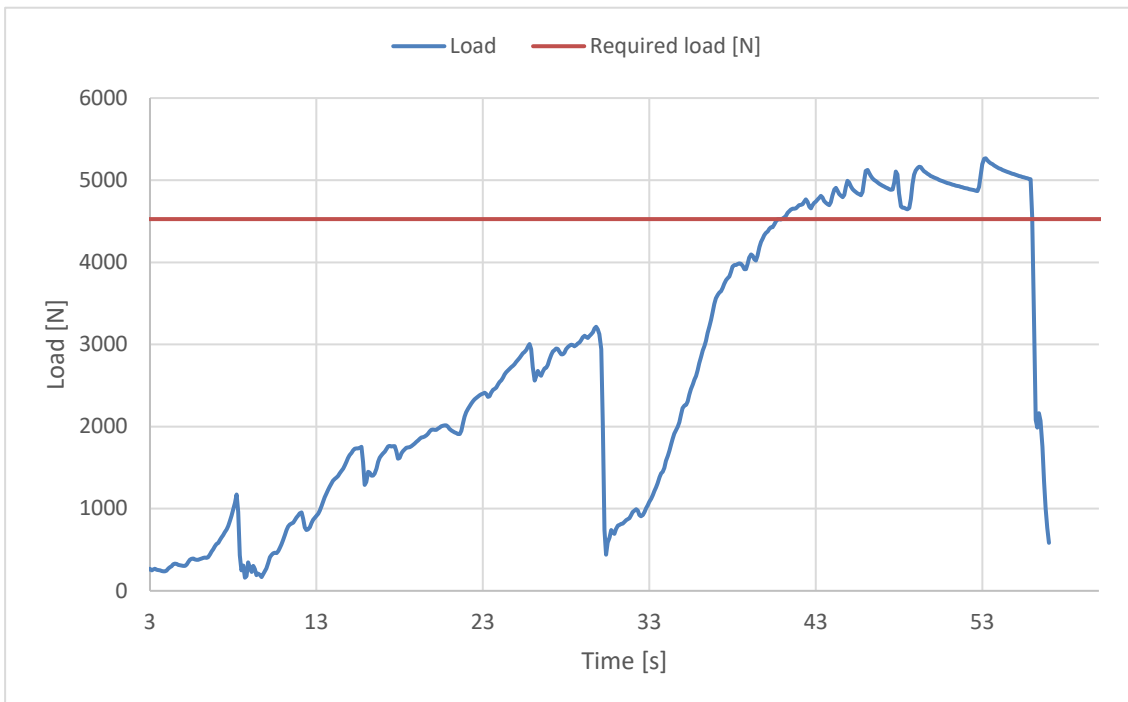
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Harness Structural test

Test ID 07

Standard	NfL 2-565-20	
Reference	5.3.2.6	
Test setup	Asymmetric, negative	
Attachment points	One main riser attachment (3 or 4) downwards	
Anchor points	Dummy (9)	
Required load [g]	4.5	
Required load [N]	4500	
Minimum test duration [s]	10	
Result		
Test duration [s]	15.1	
Any signs of structural failure	No	
Test results	POSITIVE	



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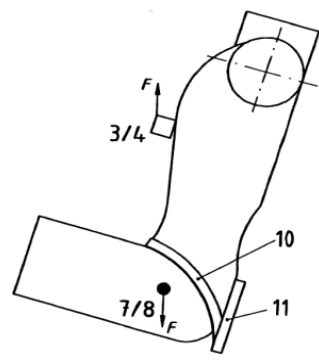
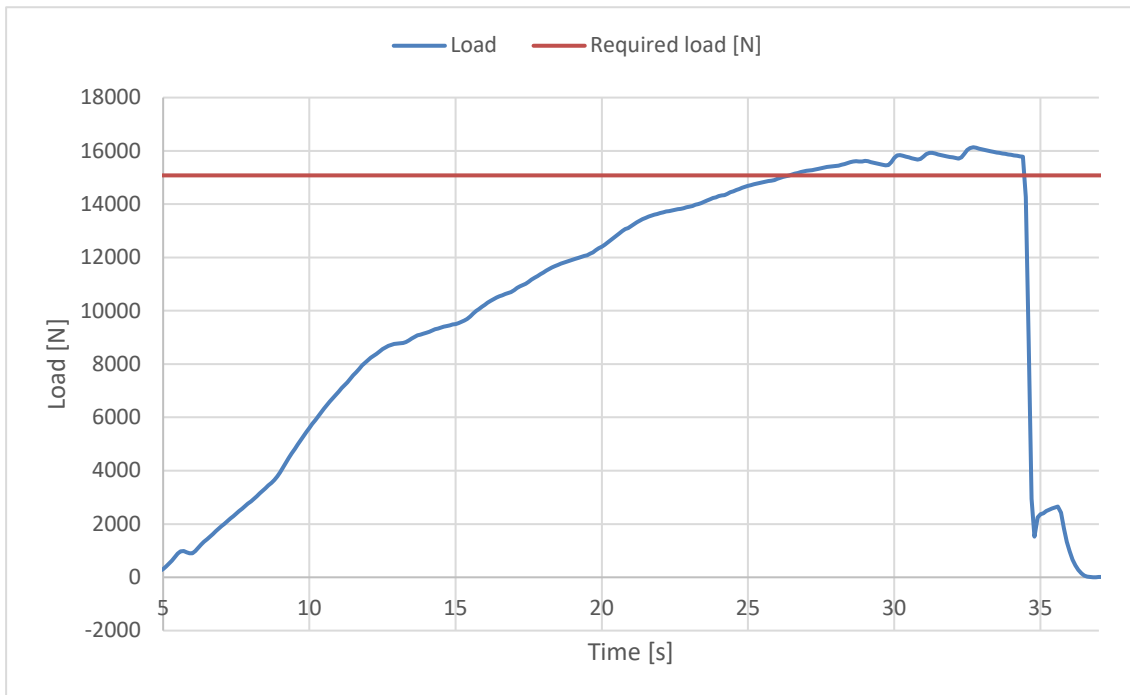
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model: **Contour**

Harness Structural test

Test ID 13

Standard	NfL 2-565-20
Reference	5.3.2.7
Test setup	Flying position before landing
Attachment points	Both main riser attachment (3,4)
Anchor points	Dummy (7,8)
Required load [g]	15
Required load [N]	15000
Minimum test duration [s]	5
Result	
Test duration [s]	8
Any signs of structural failure	No
Test results	POSITIVE

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