

Harness Structural test Report - NfL

Inspection certificate number: **PH_349.2021**

Manufacturer data:

Manufacturer name: **Davinci Products Inc.**
 Representative: **Jihun Lee**
 Street: **53 sinchon-gil, Okcheon-myeon, Yangpy**
 Post code place: **Gyeonggi-do 12505**
 Country: **Republic of Korea**

Sample data:

Name: **Lullaby**
 Type: **ABS**
 Size: **Unique**
 Serial number: **HLB-10001**
 Impact pad type: ⁽¹⁾ **Foam**
 Clip-in weight [kg]: **100**
 Integrated container: **No**
 Date of test: **11.08.2021**

Atmosphere AGL:

[C°]	22
RH [%]	57
[hPa]	1009

Summary of Structural test

Test id	- Ref.	Setup	Req. Load [g]	Req. Load [N]	Min. duration [s]	Result
02	✓ 5.3.2.1	Default flying position	6	6000	10	POSITIVE
03	✓ 5.3.2.2	Default flying position	15	15000	5	POSITIVE
04	✓ 5.3.2.3	Asymmetric, one riser	6	6000	10	POSITIVE
07	✓ 5.3.2.6	Asymmetric, negative	4.5	4500	10	POSITIVE
09	5.3.2.4	Rescue attachments	15	15000	5	n/a
13	✓ 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	Default flying position	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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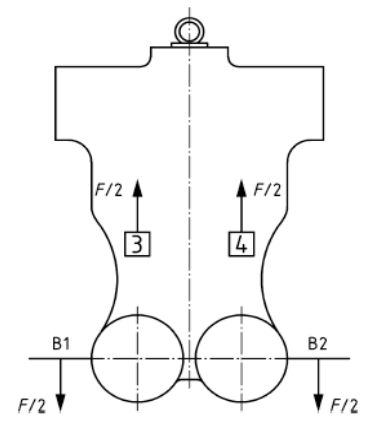
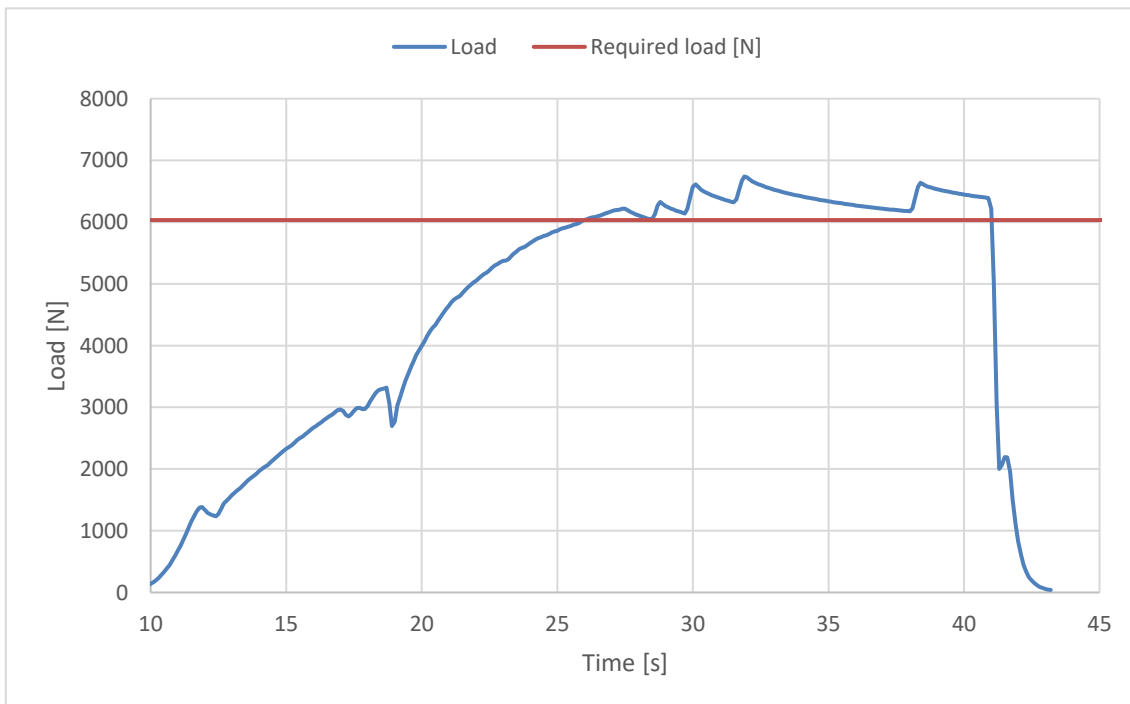
Inspection certificate number: **PH_349.2021**

model: **Lullaby**

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]	15
Any signs of structural failure	No
Test results	POSITIVE

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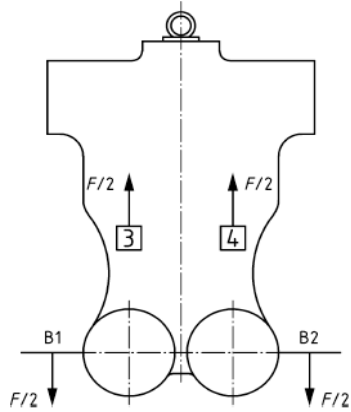
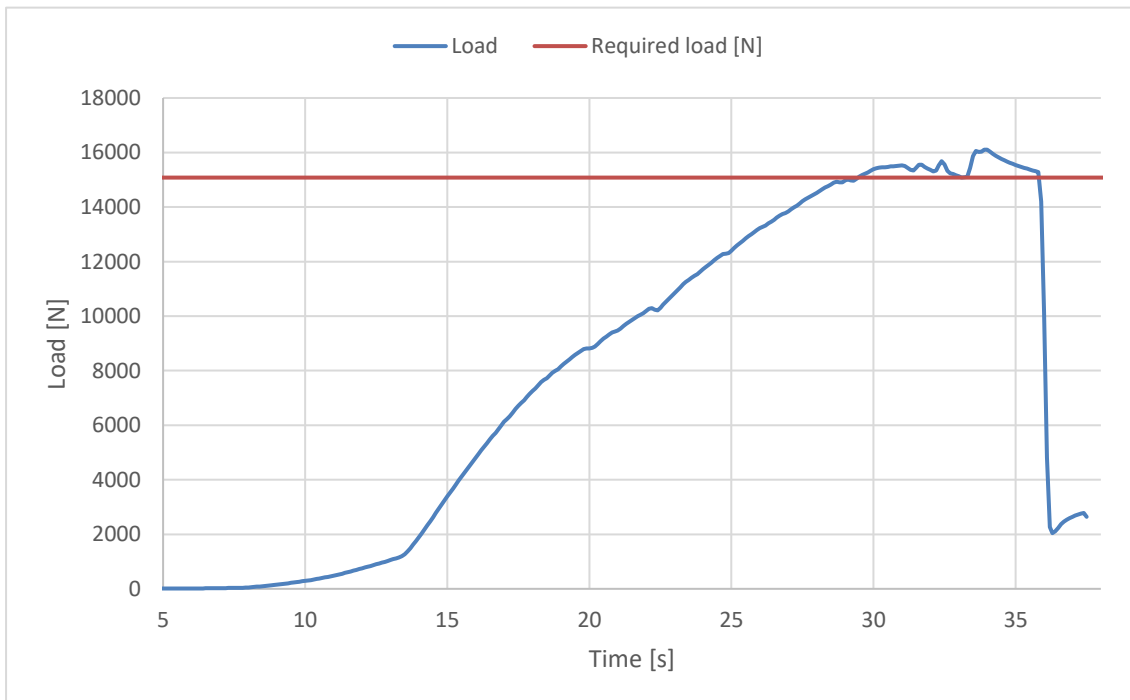
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model: **Lullaby**

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]	6.4
Any signs of structural failure	No
Test results	POSITIVE

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Inspection certificate number: **PH_349.2021**

model: **Lullaby**

Harness Structural test

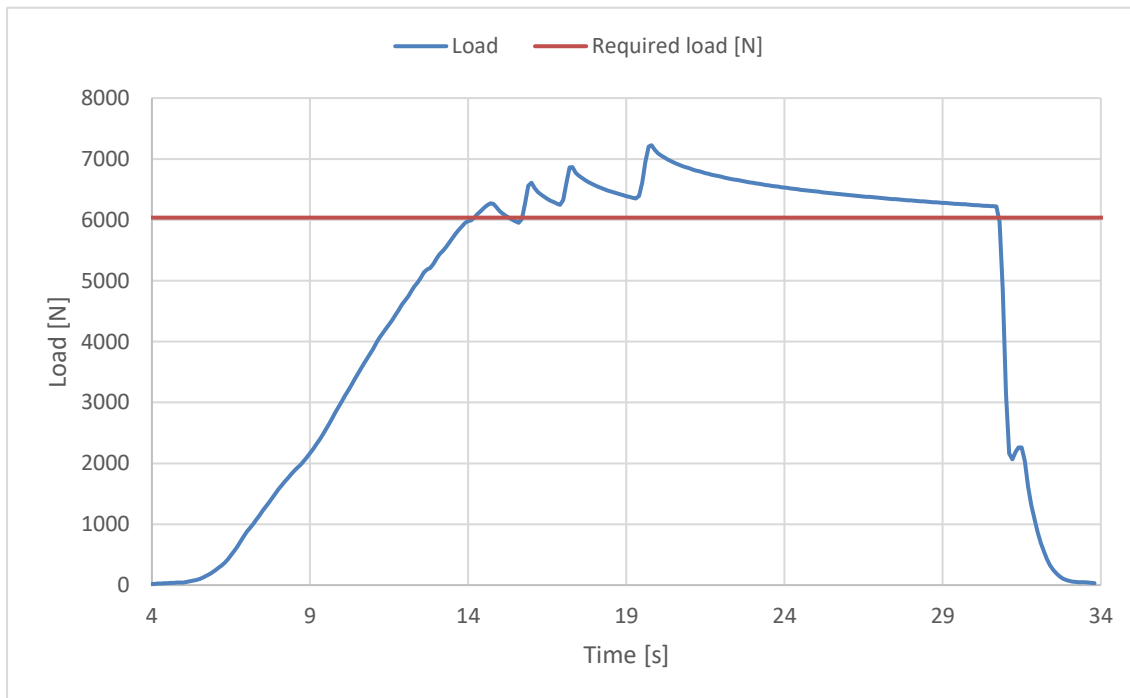
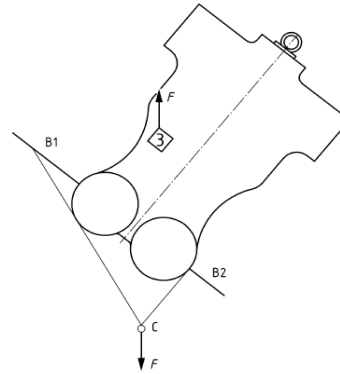
Test ID 04

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] **15**
 Any signs of structural failure **No**
 Test results **POSITIVE**



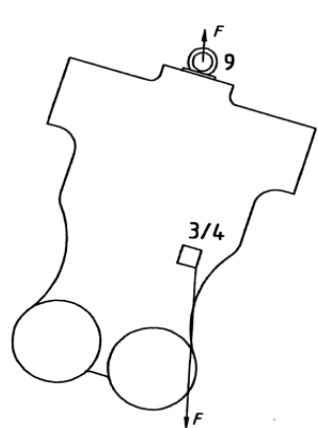
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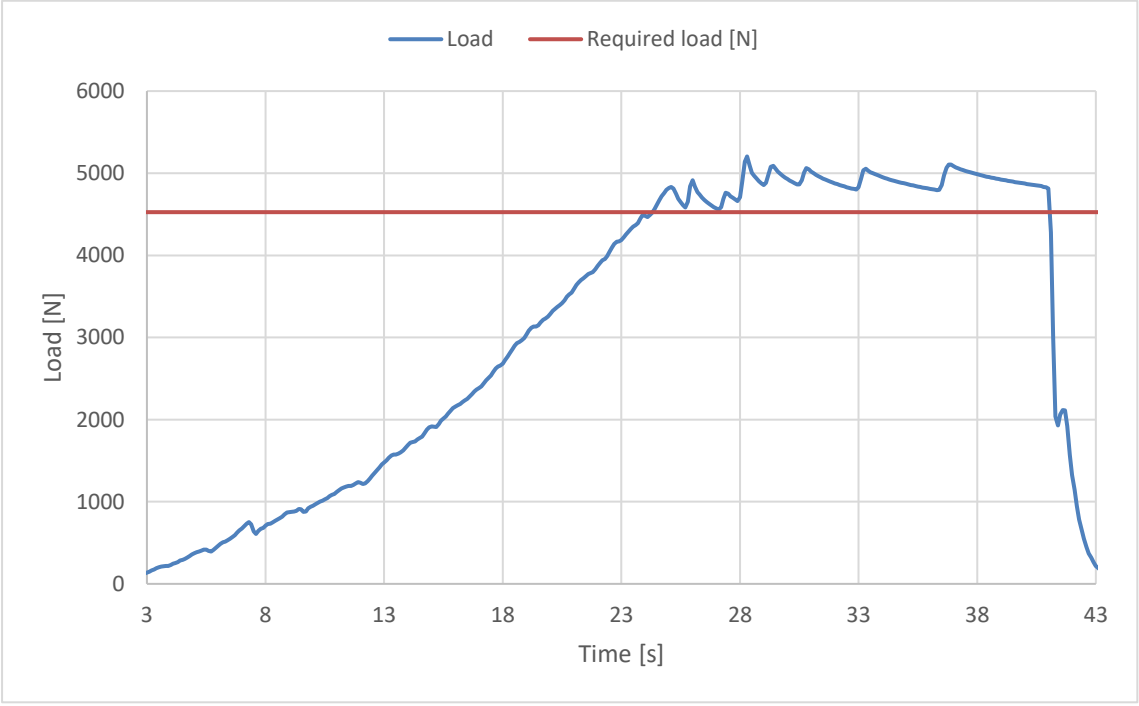
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model: **Lullaby**

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]	16.7	
Any signs of structural failure	No	
Test results	POSITIVE	



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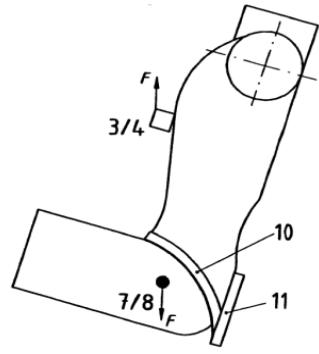
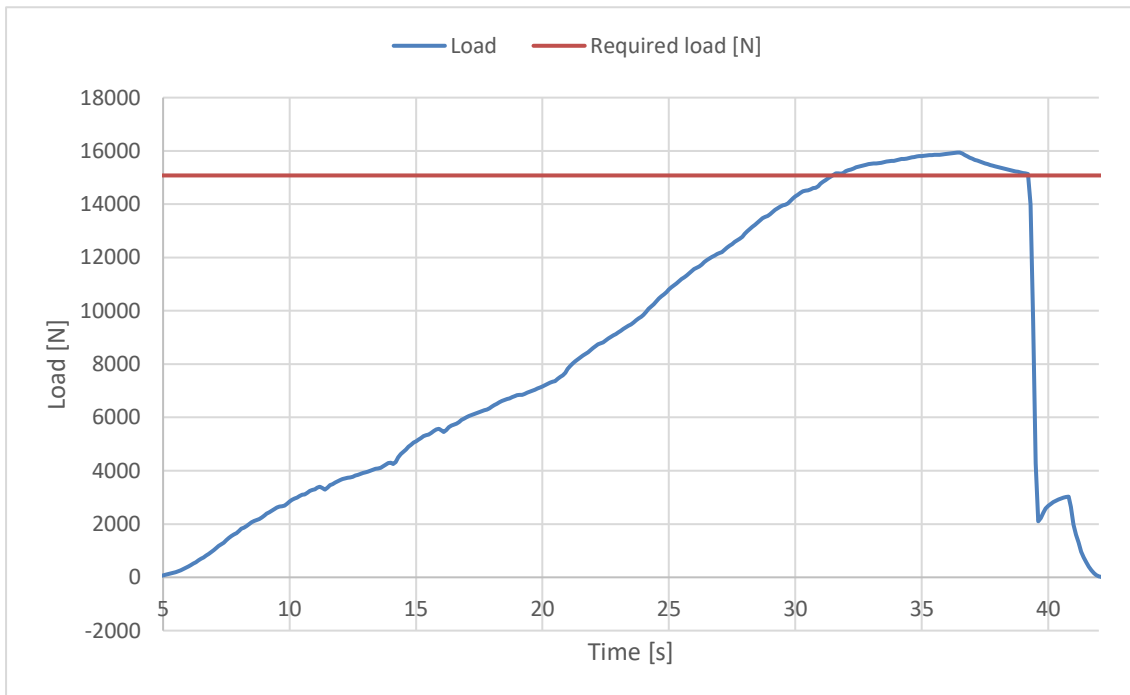
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model: **Lullaby**

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]	7.8
Any signs of structural failure	No
Test results	POSITIVE

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