

Harness Structural test Report - NfL

Inspection certificate number: **PH_425.2024**

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: **Harmony Passenger air 2**
 Type: **ABS**
 Size: **One size**
 Serial number: **HPAT-TF-59001**
 Impact pad type: ⁽¹⁾ **Airbag**
 Clip-in weight [kg]: **120**
 Integrated container: **No**

Date of test: **27.09.2023**

Atmosphere AGL:

[C°]	22
RH [%]	50
[hPa]	1008

Summary of Structural test

Test id	-	EN 1651:1999	Setup	Req. Load [g]	Req. Load [N]	Min. duration [s]	Result
02	✓	5.3.2.1	Default flying position	6	7200	10	POSITIVE
03	✓	5.3.2.2	Default flying position	15	18000	5	POSITIVE
04	✓	5.3.2.3	Asymmetric, one riser	6	7200	10	POSITIVE
07	✓	5.3.2.6	Asymmetric, negative	4.5	5400	10	POSITIVE
09	✓	5.3.2.4	Rescue attachments	15	18000	5	POSITIVE
13	✓	5.3.2.7	Flying position before landing	15	18000	5	POSITIVE
14		5.3.2.5	Towing	5	6000	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	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:

NfL 2-565-20, EN12491:2015 and EN1651:1999

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

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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model: **Harmony Passenger air 2**

Harness Structural test

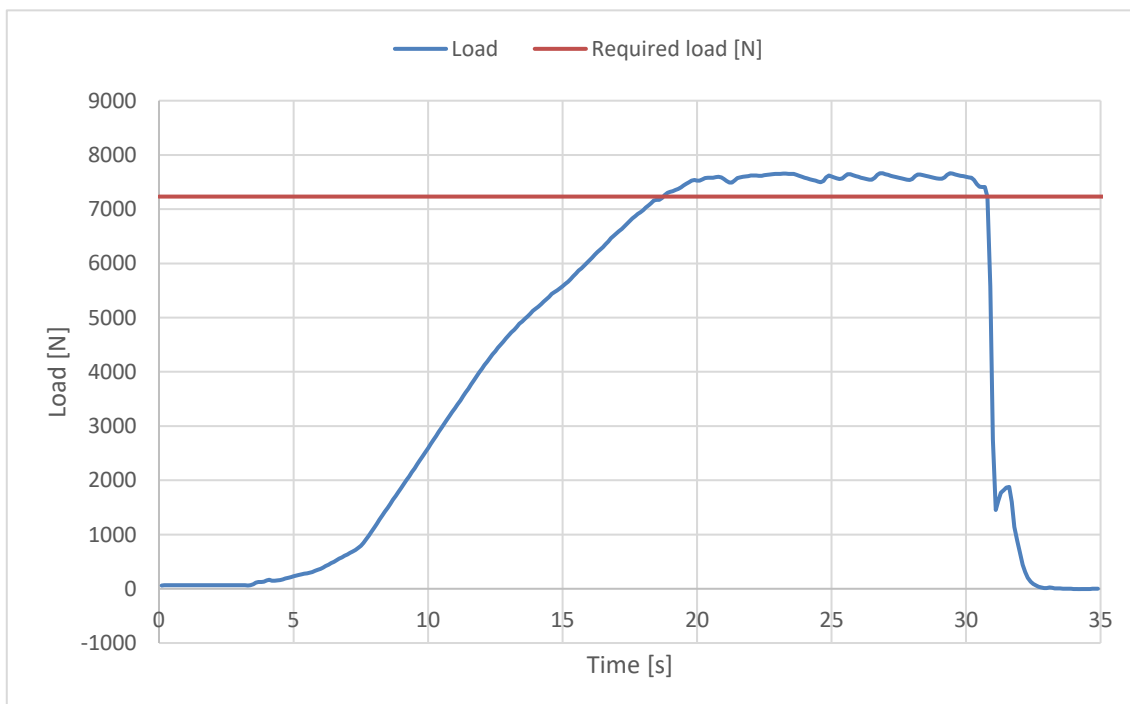
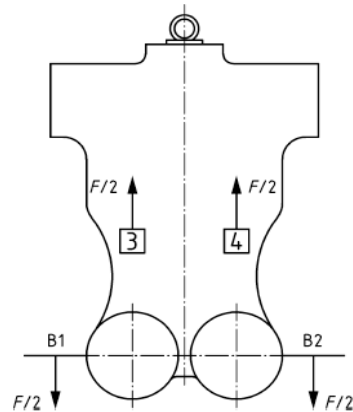
Test ID 02

Standard **EN 1651:1999**
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] **7200**
Minimum test duration [s] **10**

Result

Test duration [s] **12**
Any signs of structural failure **No**
Test results **POSITIVE**



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Harness Structural test

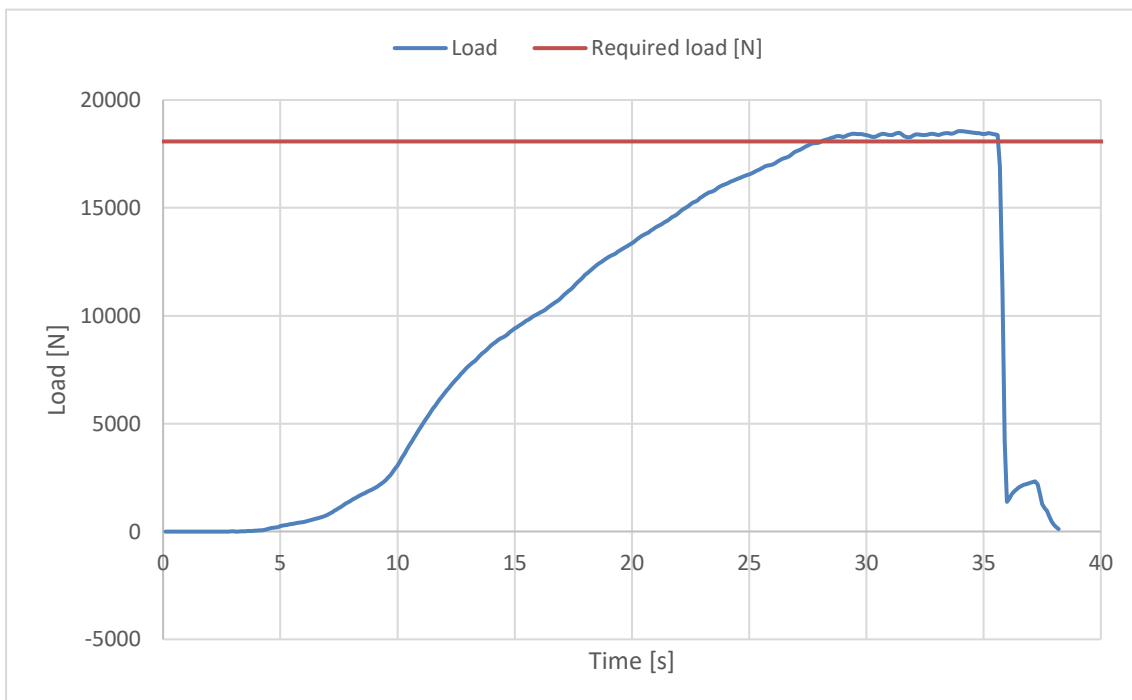
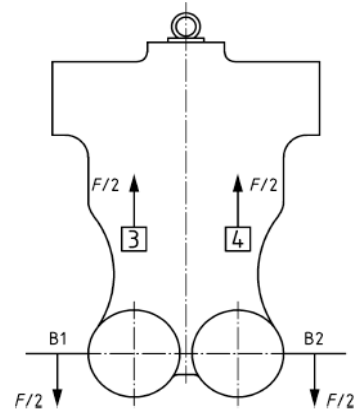
Test ID 03

Standard **EN 1651:1999**
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] **18000**
Minimum test duration [s] **5**

Result

Test duration [s] **7.6**
Any signs of structural failure **No**
Test results **POSITIVE**



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Harness Structural test

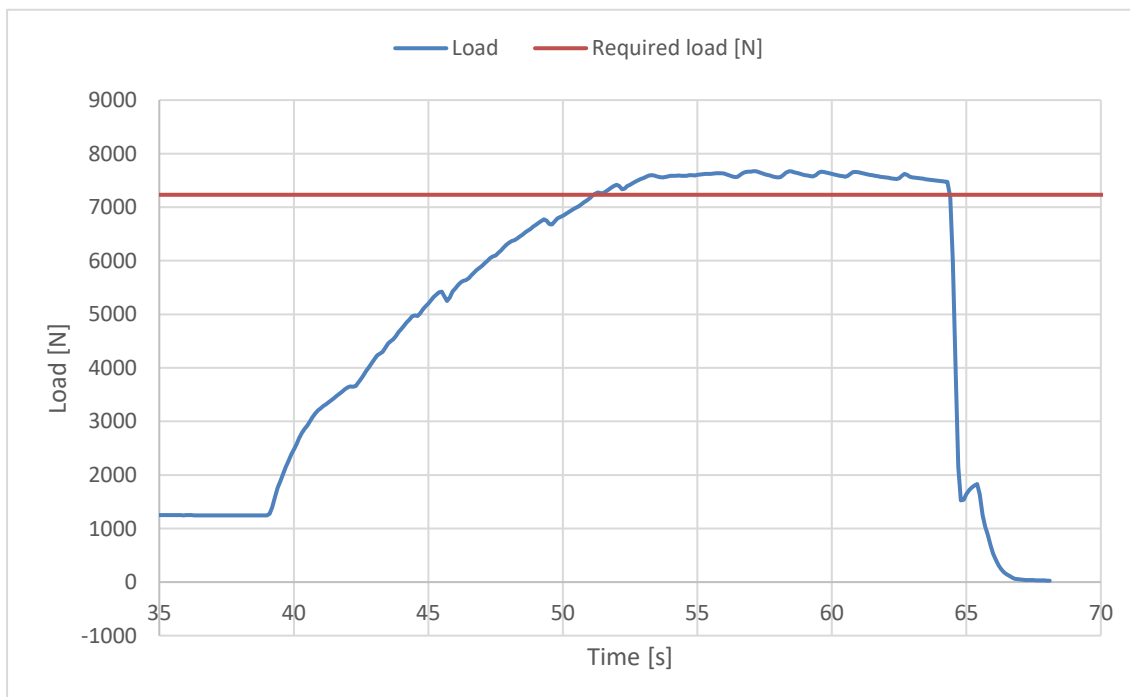
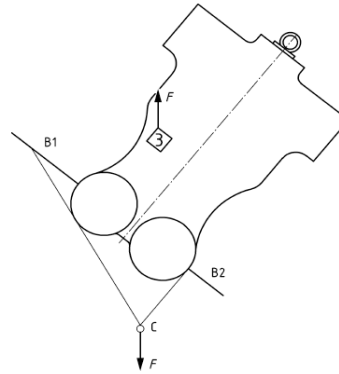
Test ID 04

Standard **EN 1651:1999**
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] **7200**
Minimum test duration [s] **10**

Result

Test duration [s] **13.2**
Any signs of structural failure **No**
Test results **POSITIVE**



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Harness Structural test

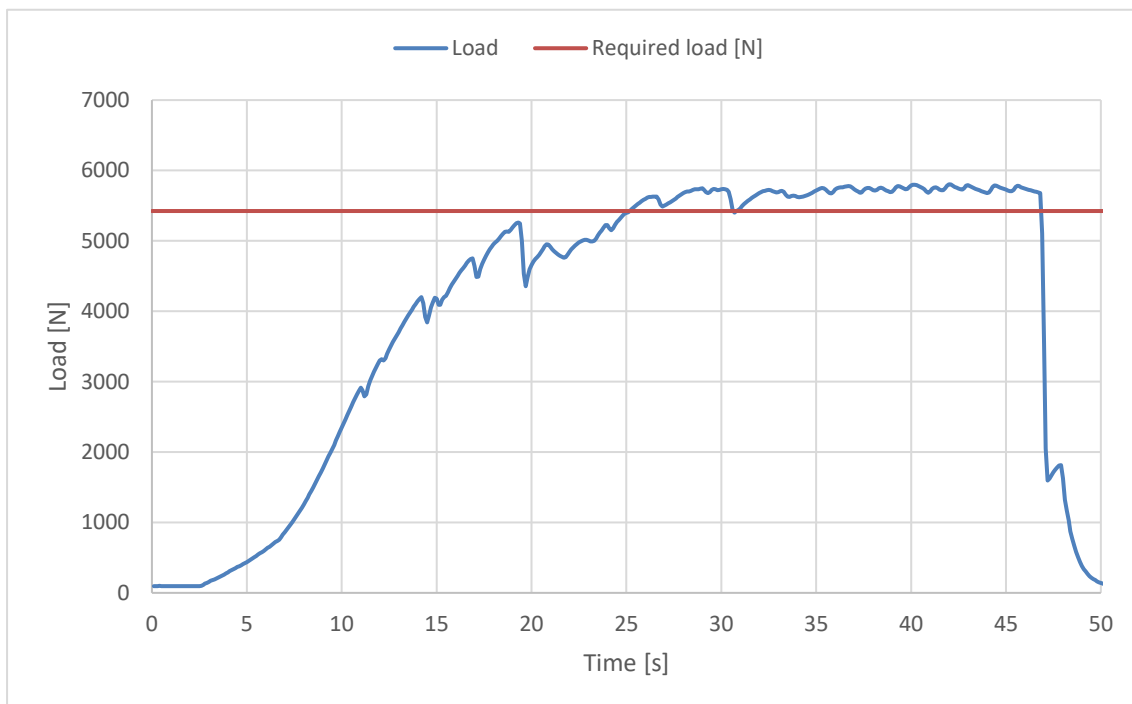
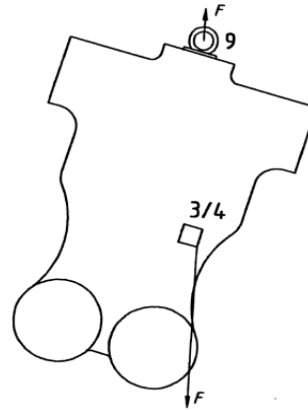
Test ID 07

Standard **EN 1651:1999**
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] **5400**
Minimum test duration [s] **10**

Result

Test duration [s] **16**
Any signs of structural failure **No**
Test results **POSITIVE**



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Harness Structural test

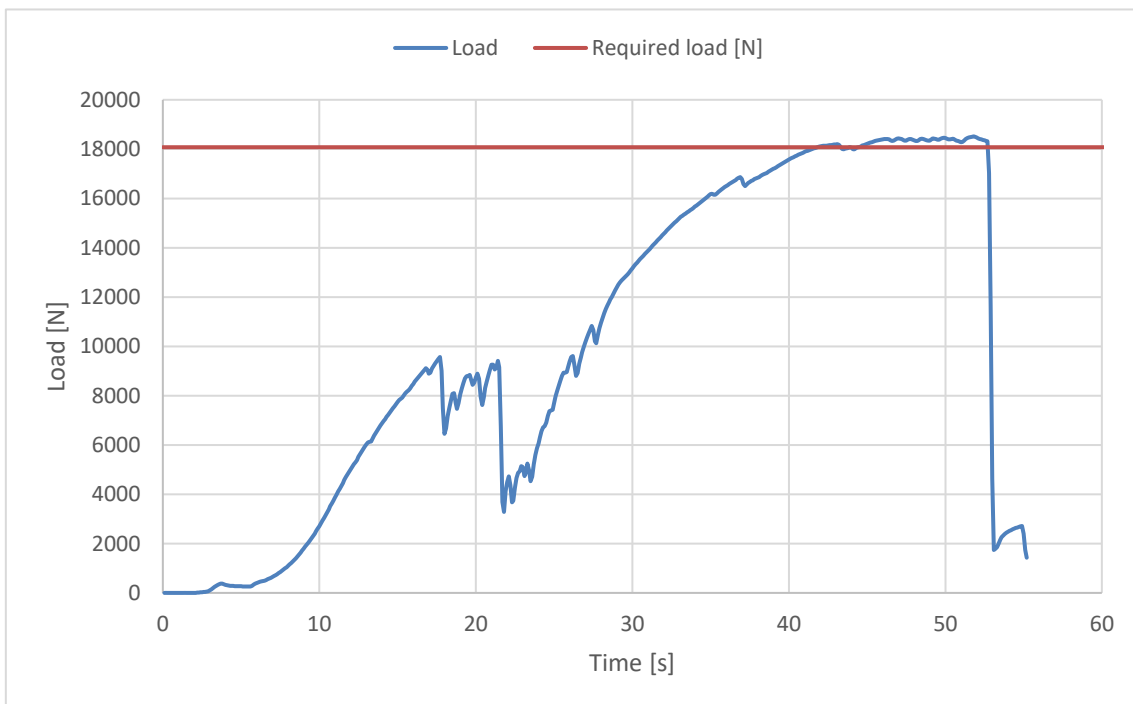
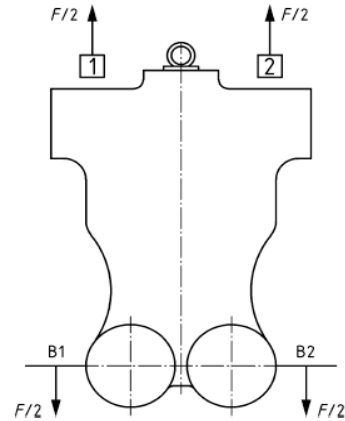
Test ID 09

Standard **EN 1651:1999**
Reference **5.3.2.4**
Test setup **Rescue attachments**
Attachment points **Rescue 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] **8.3**
Any signs of structural failure **No**
Test results **POSITIVE**



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Harness Structural test

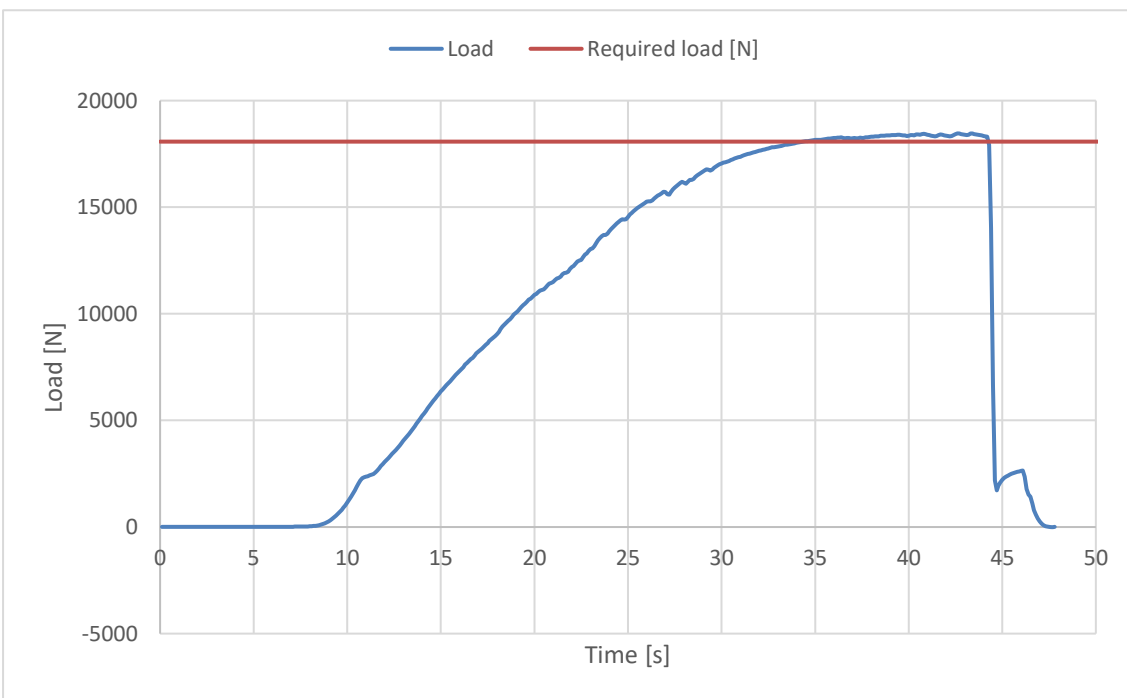
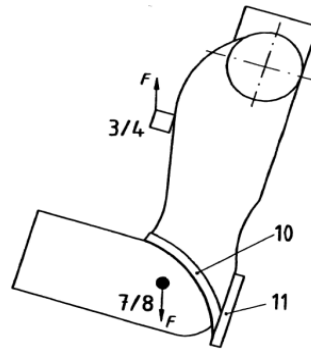
Test ID 13

Standard **EN 1651:1999**
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] **18000**
Minimum test duration [s] **5**

Result

Test duration [s] **9.9**
Any signs of structural failure **No**
Test results **POSITIVE**



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