

## Harness Impact Pad Report

Inspection certificate number: **PH\_345.2021**

### Manufacturer data:

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

Harness model: **Harmony Pilot**

### Sample data:

Name impact pad: **n/a**  
 Impact pad integrated: **Yes**  
 Impact pad type: **Foam**  
 Serial number: **n/a**  
 Weight of sample [kg]: **0.91**  
 Date of test: **16.06.2021**

### Atmosphere AGL:

[C°]	<b>24</b>
RH [%]	<b>52</b>
[hPa]	<b>1005</b>

### Summary of Impact pad test <sup>(1)</sup>

Test id		Test configuration <sup>(2)</sup>	Max Peak of Impact [g] <sup>(3)</sup>	Duration at 38 [g] in [ms] <sup>(4)</sup>	Duration at 20 [g] in [ms] <sup>(5)</sup>	Diff. of test 1 and 2 [%] <sup>(6)</sup>	Result
P	V	Test sample attached to dummy in flying position, without emergency parachute	<b>37.39</b>	<b>3.33</b>	<b>17.50</b>	<b>4.69</b>	<b>POSITIVE</b>
PR	V	Test sample attached to dummy in flying position, Include emergency parachute	<b>35.71</b>	<b>3.33</b>	<b>17.50</b>	<b>2.49</b>	<b>POSITIVE</b>

Manufacturer	Instrument	Type no	S/N	Validity Calibration
Burster/MTS	Accelerometer 100 g	89010-100	1263567	23.01.2024
JDC elec	Geos n°11 Skywatch	Geos n°11	Unit11	18.06.2025

The validation of this test report is given by the signature of the test manager on the Inspection Certificate no 94.20

**Air Turquoise SA**, having thoroughly assessed the sample mentioned above, declares it was found conform with all requirements defined by the following norms:

Airworthiness Requirements **NFL 2-565-20** - European Standard **EN1651 :2018**

<sup>(1)</sup> 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%.

<sup>(2)</sup> The dummy is lifted minimum up to 1.65 m, and impact pad is mounted on. Where the impact occurs, measure distance from bottom of impact pad to ground.

<sup>(3)</sup> Maximum peak of impact should be less or equal to 50 [g], <sup>(4)</sup> If any, the maximum duration in at 38 [g] should be less or equal to 7 [ms], <sup>(5)</sup> If any, the maximum duration in at 20 [g] should be less or equal to 25 [ms], <sup>(6)</sup> The test should be done twice, and the 2nd test the maximum peak should not differ more than 20% from the first test, maximum peak.

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Name impact pad: **n/a**

**Test results of Impact pad test**

	without emergency parachute		include emergency parachute	
	P1	P2	PR1	PR2
Maximum Peak of impact [g]	<b>35.71</b>	<b>37.39</b>	<b>33.22</b>	<b>35.71</b>
Impact duration at +38 [g] in [ms]	<b>3.33</b>	<b>3.33</b>	<b>3.33</b>	<b>3.33</b>
Impact duration at +20 [g] in [ms]	<b>17.50</b>	<b>17.50</b>	<b>16.67</b>	<b>17.50</b>
Uncertainty k=2[g]	<b>2.05</b>	<b>2.15</b>	<b>1.91</b>	<b>2.05</b>
Difference of test 1 and 2 [%]	<b>100.00</b>	<b>104.69</b>	<b>100.00</b>	<b>107.51</b>

