

## Harness Impact Pad Report

Inspection certificate number: **PH\_290.2019**

### Manufacturer data:

Manufacturer name: **Davinci Products Inc.**  
 Representative: **Jihun Lee**  
 Street: **63 sinchon-gil, Okcheon-myeon, Yan**  
 Post code place: **Gyeonggi-do 12505**  
 Country: **Republic of Korea**

Harness model: **Soul**

### Sample data:

Name impact pad: **Soul**  
 Impact pad integrated: **Yes**  
 Impact pad type: **Foam**  
 Serial number: **HS-KF-111002**  
 Weight of sample [kg]: **n/a**  
 Date of test: **03.12.2019**

### Atmosphere AGL:

[C°]	<b>20.8</b>
RH [%]	<b>45</b>
[hPa]	<b>980.4</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>32.70</b>	<b>0.00</b>	<b>13.33</b>	<b>5.04</b>	<b>POSITIVE</b>
PR	V	Test sample attached to dummy in flying position, Include emergency parachute	<b>38.08</b>	<b>0.00</b>	<b>14.17</b>	<b>0.58</b>	<b>POSITIVE</b>

Manufacture	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	22	08.05.2020

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, declare it was found conform with all requirements defined by the following norms:

Airworthiness Requirements **LTF NfL II 91/09** - European Standard **EN1651 :2018**

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. 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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**Test results of Impact pad test**

	without emergency parachute		include emergency parachute	
	P1	P2	PR1	PR2
Maximum Peak of impact [g]	<b>31.13</b>	<b>32.70</b>	<b>37.50</b>	<b>38.08</b>
Impact duration at +38 [g] in [ms]	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
Impact duration at +20 [g] in [ms]	<b>13.33</b>	<b>13.33</b>	<b>14.17</b>	<b>13.33</b>
Uncertainty k=2[g]	<b>1.79</b>	<b>1.88</b>	<b>2.16</b>	<b>2.19</b>
Difference of test 1 and 2 [%]	<b>100.00</b>	<b>105.04</b>	<b>100.00</b>	<b>101.56</b>

