

## Harness Impact Pad Report

Inspection certificate number: **PH\_315.2020**

### Manufacturer data:

Manufacturer name: **Advance Thun AG**  
 Representative: **Rolf Zeltner**  
 Street: **Uttigenstrasse 87**  
 Post code place: **3600 Thun**  
 Country: **Switzerland**

Harness model: **Weightless**

### Sample data:

Name impact pad: **Backpack**  
 Impact pad integrated: **Yes**  
 Impact pad type: **Foam - Bag**  
 Serial number: **n/a**  
 Weight of sample [kg]: **0.907**  
 Date of test: **11.09.2020**

### Atmosphere AGL:

[C°]	<b>24.1</b>
RH [%]	<b>58</b>
[hPa]	<b>972.4</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>47.30</b>	<b>5.83</b>	<b>18.33</b>	<b>14.10</b>	<b>POSITIVE</b>
PR	V	Test sample attached to dummy in flying position, Include emergency parachute	<b>46.53</b>	<b>5.83</b>	<b>19.17</b>	<b>2.67</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	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, declare it was found conform with all requirements defined by the following norms:

Airworthiness Requirements **LTF n°L II 91/09** - European Standard **EN1651 :2018**

<sup>(1)</sup> Calculated value 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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**Test results of Impact pad test**

	without emergency parachute		include emergency parachute	
	P1	P2	PR1	PR2
Maximum Peak of impact [g]	<b>41.45</b>	<b>47.30</b>	<b>43.85</b>	<b>46.53</b>
Impact duration at +38 [g] in [ms]	<b>3.33</b>	<b>5.83</b>	<b>5.00</b>	<b>5.83</b>
Impact duration at +20 [g] in [ms]	<b>18.33</b>	<b>17.50</b>	<b>18.33</b>	<b>19.17</b>
Uncertainty k=2[g]	<b>2.38</b>	<b>2.72</b>	<b>2.52</b>	<b>2.68</b>
Difference of test 1 and 2 [%]	<b>100.00</b>	<b>114.10</b>	<b>100.00</b>	<b>106.10</b>

