



# Harness Impact Pad Report

Inspection certificate number: **PH\_457.2024**

**Manufacturer data:**

Manufacturer name: **Fly-market Flugsport-Zubehör GmbH**  
 Representative: **Stefan Kurrle**  
 Street: **Am Schönebach 3**  
 Post code place: **87637 Eisenberg**  
 Country: **Germany**  
 Harness model: **Flex**

**Sample data:**

Name impact pad: **n/a**  
 Impact pad integrated: **Yes**  
 Impact pad type: **Airbag**  
 Weight of sample [kg]: **n/a**  
 Serial number: **Flex001**  
 Date of test: **08.04.2024**

**Atmosphere AGL:**

Temp. [C°]	<b>21</b>
R.H. [%]	<b>44</b>
Press. [hPa]	<b>1001</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	✓	Test sample attached to dummy in flying position, without emergency parachute	<b>18.88</b>	<b>0.00</b>	<b>0.00</b>	<b>-1.44</b>	<b>POSITIVE</b>
PR	✓	Test sample attached to dummy in flying position, including emergency parachute	<b>25.93</b>	<b>0.00</b>	<b>10.00</b>	<b>-0.93</b>	<b>POSITIVE</b>

Manufacturer	Instrument	Type no	S/N	Validity Calibration
Burster/MTS	Accelerometer 100 g	89010-100	1263567	23.08.2028
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 94.20a or 94.20b

**Air Turquoise SA**, has thoroughly tested the sample mentioned above and certifies its conformity with the following standards:

**NfL 2-565-20 and EN1651:2018+A1:2020<sup>(7)</sup>**

<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.

<sup>(7)</sup> This standard is NOT covered by accreditation D-IS-19457-01

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Name impact pad: **n/a**

**Test results of Impact pad test**

	without emergency parachute		including emergency parachute	
	P1	P2	PR1	PR2
Maximum peak of impact [g]	<b>18.88</b>	<b>18.61</b>	<b>25.93</b>	<b>25.69</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>0.00</b>	<b>0.00</b>	<b>10.00</b>	<b>10.00</b>
Uncertainty k=2 [g]	<b>0.79</b>	<b>0.78</b>	<b>1.09</b>	<b>1.08</b>
Diff. between test 1 and 2 [%]	<b>100.00</b>	<b>98.56</b>	<b>100.00</b>	<b>99.07</b>

