

## Harness Impact Pad Report

Inspection certificate number: **MISC\_053.2017**
**Manufacturer data:**

Manufacturer name: **Supair Sàrl**  
 Representative: **Laurent Chiabaut**  
 Street: **34, rue Adrastée**  
 Post code place: **74650 Chavanod**  
 Country: **France**

**Sample data:**

Name impact pad : **Bump 17 XC**  
 Impact pad intgr: **No**  
 Impact pad type: **Foam**  
 Serial number: **BUMPERXC15022018**  
 Weight of sample [kg] : **0.708**

Harness model: **Not related to a specific harness model.**

Date of test: **28.02.2018**

**Atmosphere AGL:**

[C°]	<b>21.9</b>
RH [%]	<b>24</b>
[hPa]	<b>1011.8</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	<b>V</b>	Test sample attached to dummy in flying position, without emergency parachute	<b>30.77</b>	<b>0.00</b>	<b>15.83</b>	<b>8.18</b>	<b>POSITIVE</b>
PR		Test sample attached to dummy in flying position, Include emergency parachute	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>n/a</b>

Manufacture	Instrument	Type no	S/N	Validity Calibration
Burster/MTS	Accelerometer 100 g	89010-100	1263567	04.08.2020
JDC elec	Geos n°11 Skywatch	Geos n°11	22	08.05.2019

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

<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>28.45</b>	<b>30.77</b>	<b>0.00</b>	<b>0.00</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>14.17</b>	<b>15.83</b>	<b>0.00</b>	<b>0.00</b>
Uncertainty k=2[g]	<b>1.67</b>	<b>1.80</b>	<b>0.00</b>	<b>0.00</b>
Difference of test 1 and 2 [%]	<b>100.00</b>	<b>108.18</b>	<b>n/a</b>	<b>n/a</b>

