

# 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: **D3-M-V5.5**  
 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       | V 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>                              | n/a             |

| 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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Name impact pad : **Bump 17 XC**

**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>  |

