

# Harness inspection certificate - EN

Inspection certificate number: PH\_300.2020

Impact pad number: PH\_300.2020

## Manufacturer data

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


## Sample data: Harness Impact pad

Name:	<b>Walibi 3</b>	Name Impact pad: <sup>(1)</sup>	<b>n/a</b>
Type:	<b>ABS</b>	Impact pad integrated: <sup>(1)</sup>	<b>Yes</b>
Size:	<b>M</b>	Impact pad type:	<b>Foam</b>
Weight of Sample [kg]:	<b>3.3</b>	Weight of Sample [kg]: <sup>(1)</sup>	<b>0.767</b>
Serial number:	<b>WI3-M_V9.1</b>	Serial number: <sup>(1)</sup>	<b>n/a</b>
Clip-in weight [kg]:	<b>120</b>		
Integrated container for rescue system:	<b>Yes</b>	Date of reception:	<b>05.03.2020</b>
Volume container [cm <sup>3</sup> ]:			
			<b>10400 max</b>
			<b>7000 min</b>
Date of reception:	<b>05.03.2020</b>		

## Test report summary Structural test Impact pad test

Result	<b>POSITIVE</b>	<b>POSITIVE</b>
Place	<b>Villeneuve</b>	<b>Villeneuve</b>
Date	<b>22.05.2020</b>	<b>05.03.2020</b>

## Issue data

Place of declaration: **Villeneuve**  
 Date of issue: **20.08.2020**  
 Managing Director: **Alain Zoller**  
 Signature: 

This signature approve the validity of the test reports if available; no. 94.21b (test id 01,03,05,06,08,09,10,11,12,14,RRDT,RRST) and no. 94.22 (test id: P,PR)  
**Air Turquoise SA**, having thoroughly assessed the sample mentioned above, declare it was found conform with all requirements defined by the following norms:

European Standard **EN1651:2018** and **EN12491:2015**

<sup>(1)</sup> If Impact pad is NOT integrated in the harness, it will have independently Inspection number, and serial number. Definition of integrated impact pad is impact pad which can not be dismounted from the harness, e.g. airbag.

Present declaration's scope only extends to the conformity of a given sample, on a given date and in a given place – as mentioned here above.

This inspection certificate contain the following test and is complet with the test, if available, report: 94.21 and 94.22

# Harness inspection certificate - LTF

Inspection certificate number: PH\_300.2020

Impact pad number: PH\_300.2020

## Manufacturer data

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

## Sample data:

### Harness

### Impact pad

Name:	<b>Walibi 3</b>	Name Impact pad: <sup>(1)</sup>	<b>n/a</b>
Type:	<b>ABS</b>	Impact pad integrated: <sup>(1)</sup>	<b>Yes</b>
Size:	<b>M</b>	Impact pad type:	<b>Foam</b>
Weight of Sample [kg]:	<b>3.3</b>	Weight of Sample [kg]: <sup>(1)</sup>	<b>0.767</b>
Serial number:	<b>W13-V9.1</b>	Serial number: <sup>(1)</sup>	<b>n/a</b>
Clip-in weight [kg]:	<b>120</b>		
Integrated container for rescue system:	<b>Yes</b>	Date of reception:	<b>05.03.2020</b>
Volume container [cm <sup>3</sup> ]:			
			<b>10400 max</b>
			<b>7000 min</b>
Date of reception:	<b>05.03.2020</b>		


## Test report summary

### Structural test

### Impact pad test

Result	<b>POSITIVE</b>	<b>POSITIVE</b>
Place	<b>Villeneuve</b>	<b>Villeneuve</b>
Date	<b>22.05.2020</b>	<b>05.03.2020</b>

## Issue data

Place of declaration: **Villeneuve**  
 Date of issue: **20.08.2020**  
 Managing Director: **Alain Zoller**  
 Signature: 

This signature approve the validity of the test reports if available; no. 94.21 (test id 02, 03, 13, 09, 04, 14, 07) and no. 94.22 (test id: P, PR)

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 - EN12491:2015 5.3.2

<sup>(1)</sup> If Impact pad is NOT integrated in the harness, it will have independently Inspection number, and serial number. Definition of integrated impact pad is impact pad which can not be dismantled from the harness, e.g. airbag.

Present declaration's scope only extends to the conformity of a given sample, on a given date and in a given place – as mentioned here above.

This inspection certificate contain, the following test and is complet with the test, if available, report: 94.21 and 94.22

## Harness Impact Pad Report

Inspection certificate number: **PH 300.2020**

### Manufacturer data:

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

Harness model: **Walibi 3**

### Sample data:

Name impact pad: **n/a**  
 Impact pad integrated: **Yes**  
 Impact pad type: **Foam**  
 Serial number: **n/a**  
 Weight of sample [kg]: **0.767**  
 Date of test: **05.03.2020**

### Atmosphere AGL:

[C°]	<b>21.6</b>
RH [%]	<b>34</b>
[hPa]	<b>960.2</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>37.49</b>	<b>0.00</b>	<b>16.67</b>	<b>9.58</b>	<b>POSITIVE</b>
PR	V	Test sample attached to dummy in flying position, Include emergency parachute	<b>40.13</b>	<b>0.00</b>	<b>17.50</b>	<b>2.66</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**

<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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Inspection certificate number: **PH 300.2020**

Name impact pad: **n/a**

**Test results of Impact pad test**

	without emergency parachute		include emergency parachute	
	P1	P2	PR1	PR2
Maximum Peak of impact [g]	<b>34.21</b>	<b>37.49</b>	<b>37.47</b>	<b>40.13</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>16.67</b>	<b>16.67</b>	<b>16.67</b>	<b>17.50</b>
Uncertainty k=2[g]	<b>1.97</b>	<b>2.16</b>	<b>2.16</b>	<b>2.31</b>
Difference of test 1 and 2 [%]	<b>100.00</b>	<b>109.58</b>	<b>100.00</b>	<b>107.11</b>

