

# BP PARAGLIDER HARNESSES | BACK PROTECTORS

## INSPECTION CERTIFICATE

PH 153.2 (date number: **PH 153.2015 BP**)

### MANUFACTURER DATA

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

### TEST SAMPLE DATA

Name: **Airbag Altirando 3**  
 Size: **SM**  
 Maximum pilot weight [kg]: **110**  
 Serial number: **ALT13-2165-SM-11.03-EI**  
 Sample reception date: **10/11/2015**

Protector type: **Airbag protectors**  
 Harness type: **ABS**  
 Weight [kg]: **1.7 / 3.74**  
 Test date: **18/11/2015**

### ISSUE DATA

Place of declaration: **Villeneuve**  
 Date of issue: **30/03/2016**  
 Director Management: **Alain Zoller**

Signature:



This signature approves the validity of the test reports PH BP

Air Turquoise SA, having thoroughly assessed the sample mentioned hereunder, declare it was found conform with all requirements defined by the following norms:

Airworthiness requirements for hang gliders and paragliders LTF 2009 as published in NFL 91/09 chapter 5 Paraglider harness protectors

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 report contain the following test and is complet with the test report **PH BP**

### TESTS RESULTS SUMMARY

Shock impact tests is executed on these harnesses in order to prove the damping characteristics of it

Test ID	TESTED ?	Standard	TEST setup	Test configuration	Impact at 165 cm (Seat plate)			Results
					Max Peak impact [g] force	Impact duration at 38 [g] (if any) recorded: [ms]	Impact duration at 20 [g] (if any) recorded: [ms]	
P	✓	5.1.1	Default flying position	Test sample is attached to the dummy like a pilot in flight. Sample temperature +20+25°C without rescue	21,20	0,00	6,44	POSITIVE
PR		5.1.1	Default flying position	Test sample is attached to the dummy like a pilot in flight. Sample temperature +20+25°C with rescue	0,00	0,00	0,00	n/a

Calculated value 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%.

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## BACK PROTECTORS SHOCK TEST

TEST REPORT PH BP

BP PARAGLIDER HARNESSES / BACK PROTECTORS

Inspection certificate ref. number: **PH 153.2015 BP** PH 153.2015 BP

### MANUFACTURER DATA

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 Contact person: **Laurent Chiabaut**  
 Street: **34, rue Adrastée**  
 Post code / place: **74650 Chavanod**  
 Country: **France**

### SAMPLE DATA

Name: **Airbag Altirando 3**  
 Size: **SM**  
 Max load [kg]: **110**  
 Serial number: **ALTI3-2165-SM-11.03-EI**  
 Date of reception: **10/11/2015**

### ISSUE DATA

Place of inspection: **Villeneuve**  
 Date of inspection: **18/11/2015**  
 Inspector: **Alain Zoller**  
 Directive: **LTF NFL II-91/09 chapter 5 Paraglider harness protectors**

The following limits may not be exceeded during back protector test: Maximum peak 50g, Maximum 38g for a period of 7 milliseconds, Maximum 20g for a period of 25 milliseconds: All three criteria must be fulfilled.

### TEST ATMOSPHERE AGL

[C°] **22,1**  
 RH [%] **43**  
 [hPa] **1026,3**

### TEST RESULTS

Impact in at a height of min 165 [cm] drop:

BP test without rescue system	P1 (first test)	P2 (second test)	Max value
Absolute maximum impact [g]	21,2	19,2	<b>21,20</b>
Impact duration at +38 [g] (if any): [ms]	0,00	0,00	<b>0,00</b>
Impact duration at +20 [g] (if any): [ms]	6,44	0,00	<b>6,44</b>
Uncertainty k=2 [%]	7,00	7,00	
Uncertainty k=2 [g]	1,48	1,35	
Repeat testing / max peak comparison [%]	100	91	
<b>Test Result:</b>	<b>POSITIVE</b>	<b>POSITIVE</b>	
BP with rescue system (if applicable)	PR1 (first test)	PR2 (second test)	Max value
Absolute maximum impact [g]	0,0	0,0	<b>0,00</b>
Impact duration at +38 [g] (if any): [ms]	0,00	0,00	<b>0,00</b>
Impact duration at +20 [g] (if any): [ms]	0,00	0,00	<b>0,00</b>
Uncertainty k=2 [%]	7,00	7,00	
Uncertainty k=2 [g]	0,00	0,00	
Repeat testing / max peak comparison [%]	n/a	n/a	
<b>Test Result:</b>	<b>n/a</b>	<b>n/a</b>	

Calculated value 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%.

Instruments	Validity	Manufacturer	Type nr.	S/N
Accelero meter sensor 100 G	10/07/2016	Burster / MTS	89010-100	1263567
Geos n° 11 Skywatch	07/04/2017	JDC electronics	Geos n° 11	0022

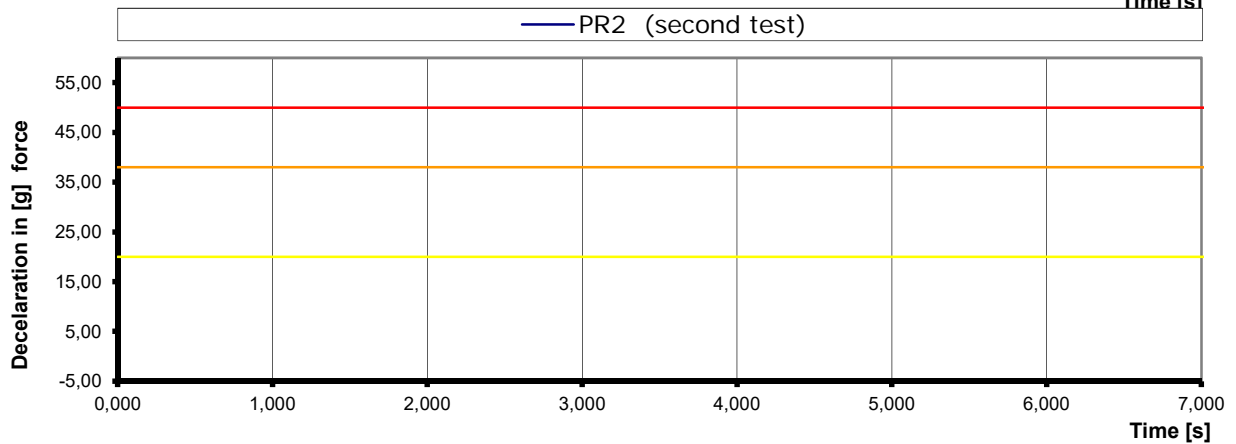
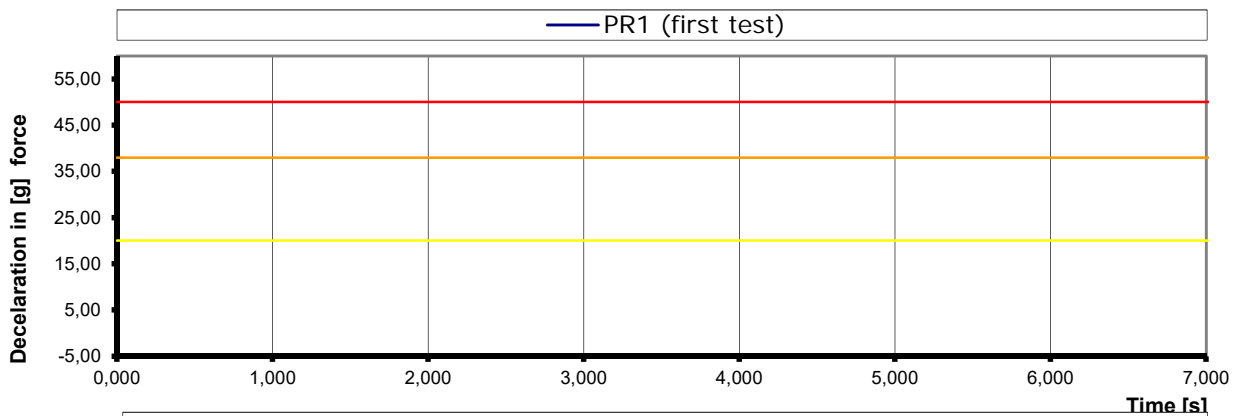
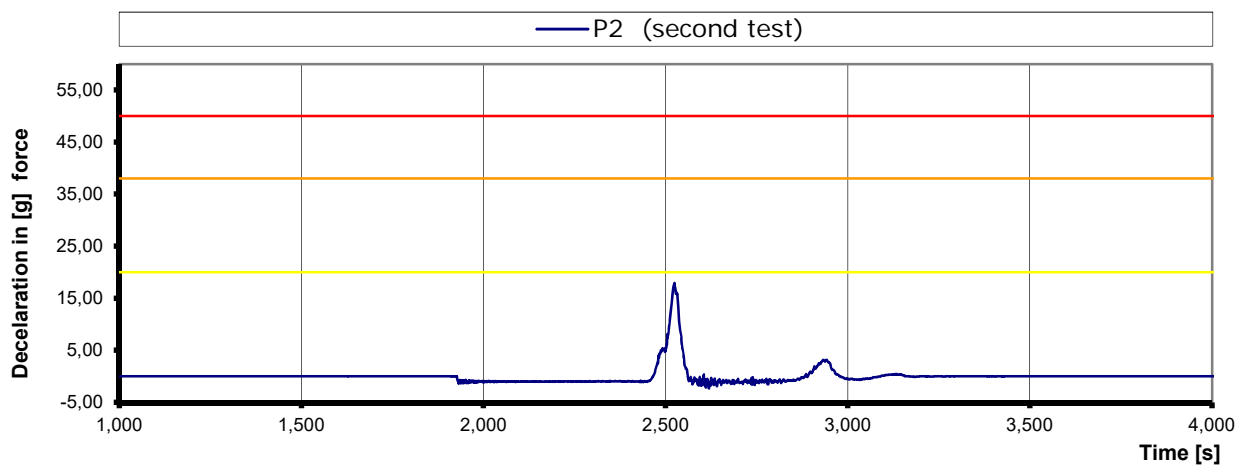
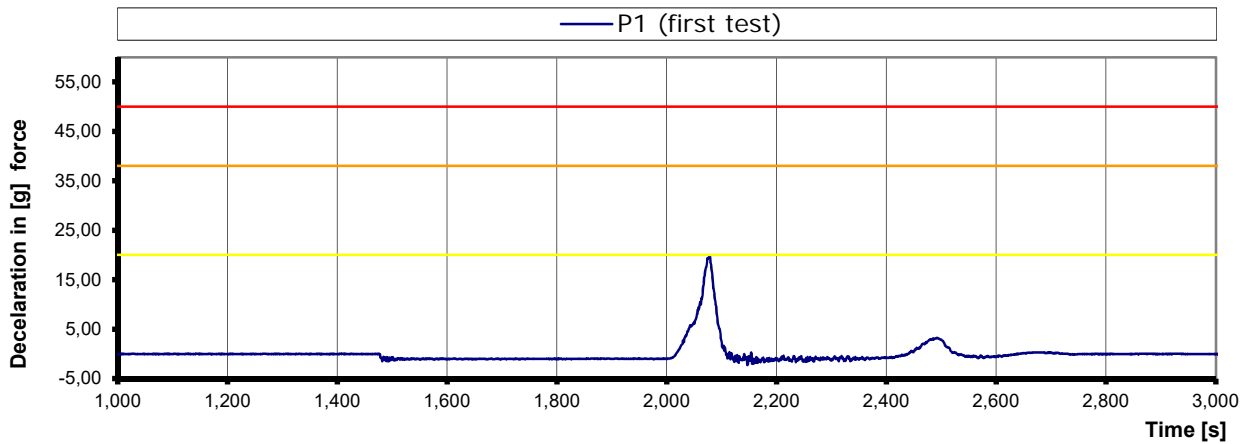
The validation of this test report is given by the signature of the test manager on Inspection Certificate 71.9.2

# BACK PROTECTORS SHOCK TEST

TEST REPORT PH BP

BP PARAGLIDERS HARNESS BACK PROTECTORS

Inspection report number: PH 153.2015 BP



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