



# INSPECTION REPORT

BP PARAGLIDERS HARNESS BACK PROTECTORS

Inspectio report number: **PH 127.2015**

## TEST SAMPLE DATA

Manufacturer name: **Supair Sàrl**  
 Contact person: **Laurent Chiabaut**  
 Street: **34, rue Adrastée**  
 Post code / place: **74650 Chavanod**  
 Country: **France**  
 Harness manufacturer name: **MINIMAX 2**  
 Harness manufacturer size: **n/a**  
 Serial number of the test sample: **2165 07 10**  
 Harness weight [kg] : **2.94**  
 Maximum certified pilot weight [kg]: **120**  
 Harness protector type: **Airbag**  
 Harness type: **ABS**  
 Volume rescue system container [cm3] Max: **n/a**  
 Volume rescue system container [cm3] Min: **n/a**  
 Sample reception date: **14.08.2015**  
 Place of declaration: **Villeneuve**  
 Date of issue: **28.08.2015**  
 Director Management: **Alain Zoller**

Signature: \_\_\_\_\_

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

**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

.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]	
PRO TECT 1	✓	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	27.48	0.00	0.00	POSITIVE
PRO TECT 2		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
PRO TECT 3	✓	5.1.1	Default flying position	Test sample is attached to the dummy like a pilot in flight. Sample temperature -10+5°C without rescue	26.98	0.00	0.00	POSITIVE
PRO TECT 4		5.1.1	Default flying position	Test sample is attached to the dummy like a pilot in flight. Sample temperature -10+5°C with rescue	0.00	0.00	0.00	n/a

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## BACK PROTECTORS SHOCK TEST

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### TEST REPORT PH BP

Inspection report number: **PH 127.2015**

#### TEST SAMPLE DATA

Manufacturer name: **Supair Sàrl**  
 Adress: **34, rue Adrastée**  
**74650 Chavanod**  
**France**

Harness Manufacturers name: **MINIMAX 2**  
 Harness Manufacturers Size: **n/a**  
 Harness Manufacturers max load (kg): **120**  
 Harness Manufacturers serial number: **2165 07 10**  
 Date of sample reception: **14.08.2015**  
 Directive: **LTF NFL II-91/09 chapter 5 Paraglider harness protectors**  
 Place of inspection: **Villeneuve**  
 Date of inspection: **17.08.2015**  
 Inspector: **Alain Zoller**

Signature: 

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°] **22.7**  
 RH [%] **53**  
 [hPa] **1019.6**

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

	20 25°	20 25°	*-10° -5°	*-10° -5°
<b>Without rescue system</b>				
Test ID	P1	P2	PN1	PN2
Absolute maximum impact [g]	27.5	25.9	27.0	26.5
Impact duration of+ 38 [g] (if any): [ms]	0.00	0.00	0.00	0.00
Impact duration of +20 [g] (if any): [ms]	19.17	18.98	18.33	17.93
Uncertainty 95 % [%]	6.61	6.61	6.61	6.61
Uncertainty 95 % [g]	1.82	1.71	1.78	1.75
MAX ACCELERATION compare [%]	100	94	100	98
Test Result:	<b>POSITIVE</b>	<b>POSITIVE</b>	<b>POSITIVE</b>	<b>POSITIVE</b>
<b>With rescue system</b>				
Test ID	P1R	P2R	PN1R	PN2R
Absolute maximum impact [g]	0.0	0.0	0.0	0.0
Impact duration of+ 38 [g] (if any): [ms]	0.00	0.00	0.00	0.00
Impact duration of +20 [g] (if any): [ms]	0.00	0.00	0.00	0.00
Uncertainty 95 % [%]	6.61	6.61	6.61	6.61
Uncertainty 95 % [g]	0.00	0.00	0.00	0.00
MAX ACCELERATION compare [%]	100	<b>#DIV/0!</b>	100	<b>#DIV/0!</b>
Test Result:	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>

Instruments	Validity	Manufacturer	Type nr.	S/N
Accelerometer sensor 100 G	2017	Burster / MTS	89010-100	1263567
Geos n° 11 Skywatch	07.04.2017	JDC electronics	Geos n° 11	0022

\* Sample is refrigerated at negative value according to the LTF91/09 chapter 5 requirements, the test is executed at the test room temperature.

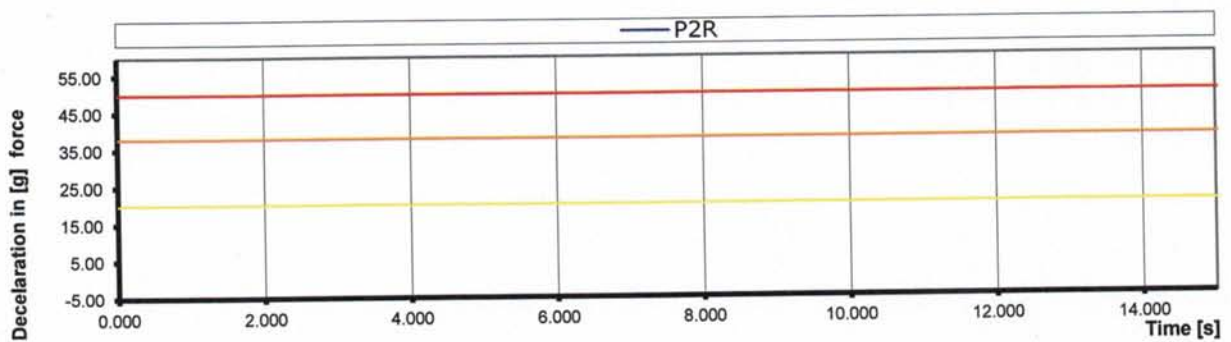
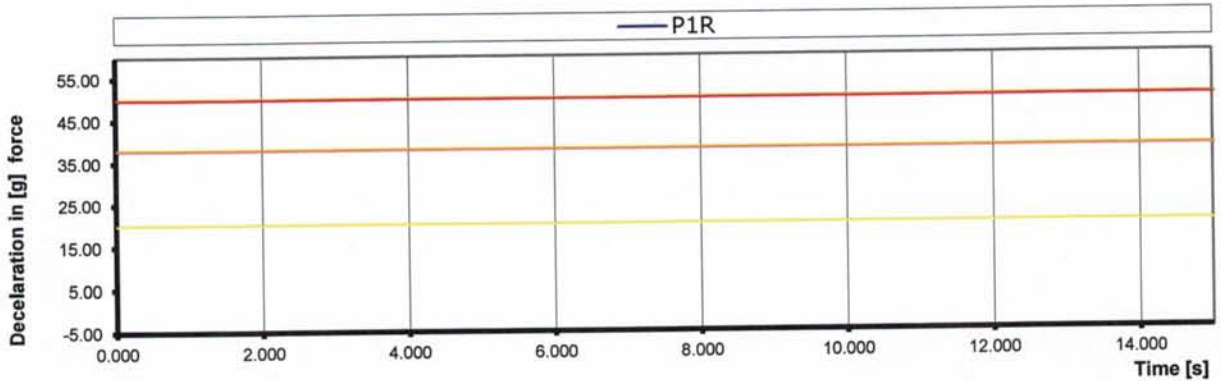
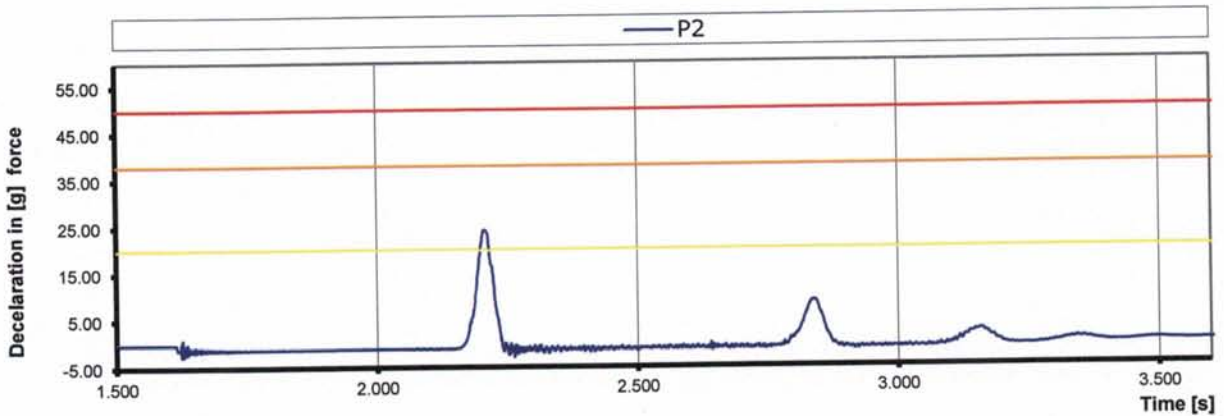
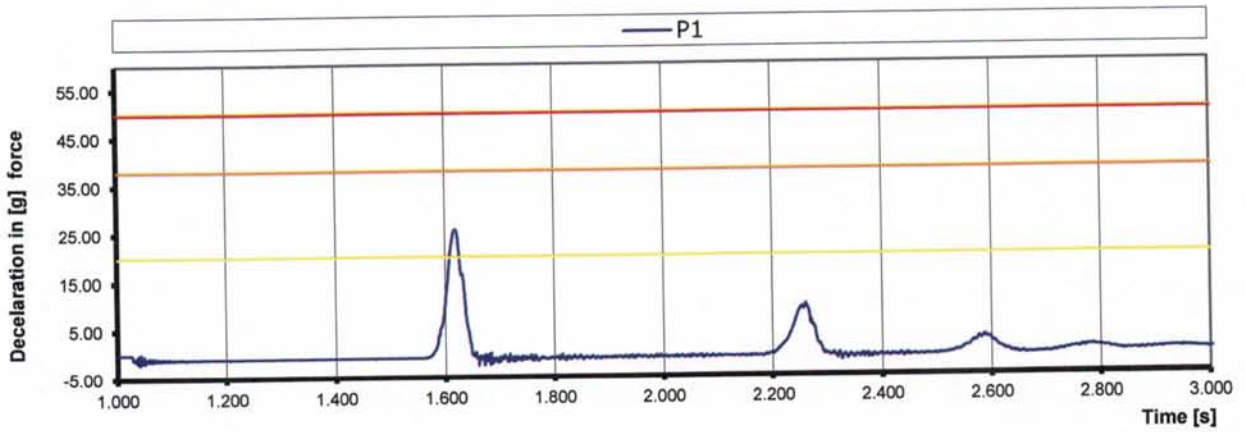
# BACK PROTECTORS SHOCK TEST

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## ACK PROTECTORS SHOCK TEST

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