

## PH PARAGLIDER HARNESSSES | IP IMPACT PAD

### INSPECTION CERTIFICATE

Inspection certificate number: **PH\_IP\_199.2017**

#### MANUFACTURER DATA

Manufacturer name: **AIR MKG - Kortel Design**

Contact person: **Denis Cortella**

Street: **1096 Avenue André Lasquin**

Post code / place: **74700 Sallanches**

Country: **France**

#### SAMPLE DATA

Name: **Kolibri pro**

Size: **L**

Impact pad type: **Airbag**

Pilot max load [kg]: **100**

Harness type: **ABS**

Serial number: **S005**

Weight [kg]: **1,194**

Sample reception date: **19.05.2017**

Test date: **19.05.2017**

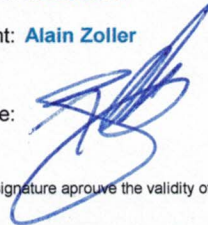
#### ISSUE DATA

Place of declaration: **Villeneuve**

Date of issue: **01.06.2017**

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 | 20.44                         | 0.00  | 0.42  | 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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# IMPACT PAD SHOCK TEST

# TEST REPORT PH iP

BP PARAGLIDER HARNESSSES / BACK PROTECTORS

Inspection certificate ref. number: **PH\_IP\_199.2017**

### MANUFACTURER DATA

Manufacturer name: **AIR MKG - Kortel Design**  
 Contact person: **Denis Cortella**  
 Street: **1096 Avenue André Lasquin**  
 Post code / place: **74700 Sallanches**  
 Country: **France**

### SAMPLE DATA

Name: **Kolibri pro**  
 Size: **L**  
 Max load [kg]: **100**  
 Serial number: **S005**  
 Date of reception: **19.05.2017**

### ISSUE DATA

Place of inspection: **Villeneuve**  
 Date of inspection: **19.05.2017**  
 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°] **23.8**  
 RH [%] **46**  
 [hPa] **1020**

### 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]               | 20.4             | 19.2              | <b>20.44</b> |
| Impact duration at +38 [g] (if any): [ms] | <b>0.00</b>      | <b>0.00</b>       | <b>0.00</b>  |
| Impact duration at +20 [g] (if any): [ms] | <b>0.42</b>      | <b>0.00</b>       | <b>0.42</b>  |
| Uncertainty k=2 [%]                       | 7.00             | 7.00              |              |
| Uncertainty k=2 [g]                       | 1.43             | 1.35              |              |
| Repeat testing / max peak comparison [%]  | 100              | <b>94</b>         |              |
| <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] | <b>0.00</b>      | <b>0.00</b>       | <b>0.00</b>  |
| Impact duration at +20 [g] (if any): [ms] | <b>0.00</b>      | <b>0.00</b>       | <b>0.00</b>  |
| Uncertainty k=2 [%]                       | 7.00             | 7.00              |              |
| Uncertainty k=2 [g]                       | 0.00             | 0.00              |              |
| Repeat testing / max peak comparison [%]  | <b>100</b>       | <b>n/a</b>        |              |
| <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     |
|----------------------------|------------|-----------------|------------|---------|
| Accelerometer sensor 100 G | 10.07.2016 | Burster / MTS   | 89010-100  | 1263567 |
| Geos n° 11 Skywatch        | 07.04.2017 | JDC electronics | Geos n° 11 | 0022    |

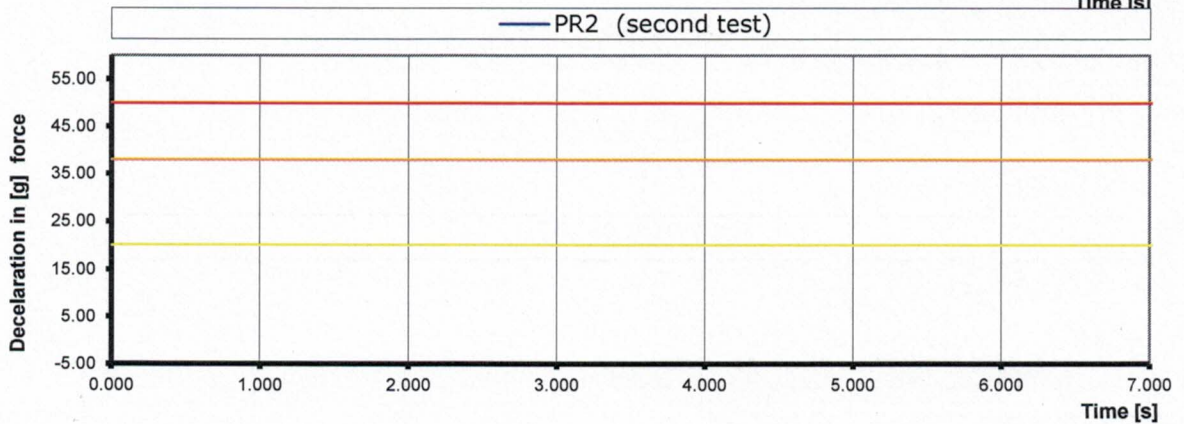
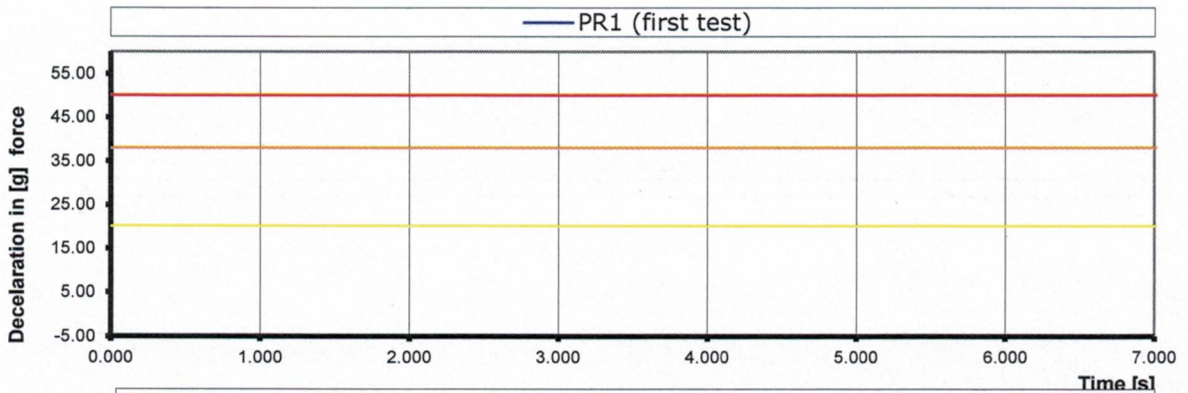
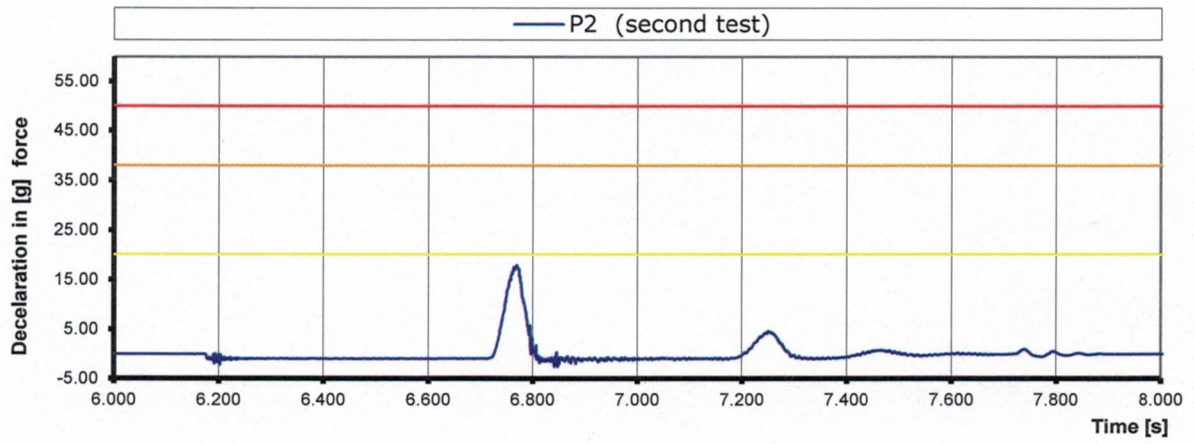
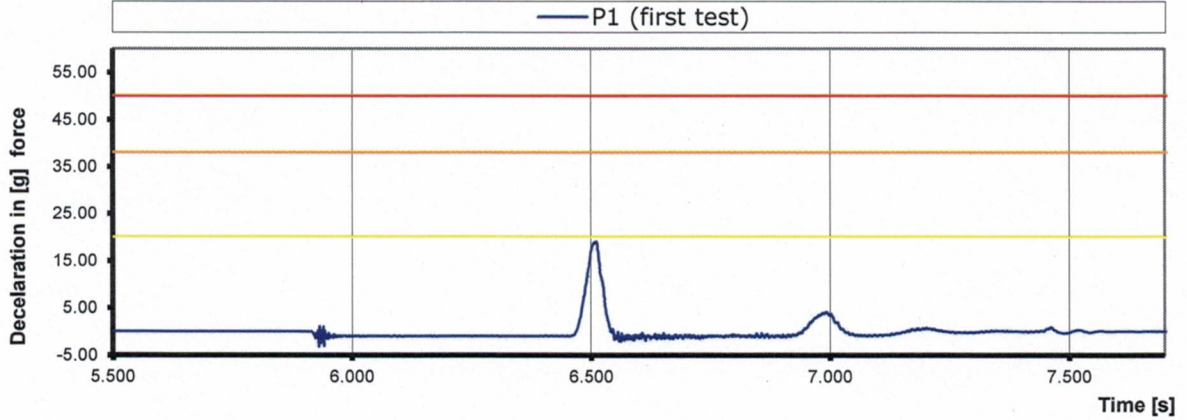
The validation of this test report is given by the signature of the test manager on Inspection Certificate 71.9.2□

# IMPACT PAD SHOCK TEST

# TEST REPORT PH iP

BP PARAGLIDERS HARNESS BACK PROTECTORS

Inspection report number: PH\_IP\_199.2017



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