



# PH PARAGLIDER HARNESSSES | IP IMPACT PAD

## INSPECTION CERTIFICATE

Inspection certificate number: **PH\_IP\_170.2016**

### MANUFACTURER DATA

Manufacturer name: **Advance Thun AG**

Contact person: **Rolf Zeltner**

Street: **Uttigenstrasse 87**

Post code / place: **3600 Thun**

Country: **Switzerland**

### SAMPLE DATA

Name: **Success 4**

Size: **M**

Impact pad type: **Soft foam protectors**

Pilot max load [kg] : **120**

Harness type: **ABS**

Serial number: **1135199**

Weight [kg] : **3.9**

Sample reception date: **19.05.2016**

Test date: **15.06.2016**

### ISSUE DATA

Place of declaration: **Villeneuve**

Date of issue: **06.12.2016**

Director Management: **Alain Zoller**

Signature:

This signature approve 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 | 39.52                         | 0.00  | 0.00  | 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    | 41.26                         | 0.00  | 0.00  | POSITIVE |

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\_170.2016

### MANUFACTURER DATA

Manufacturer name: Advance Thun AG  
 Contact person: Rolf Zeltner  
 Street: Uttigenstrasse 87  
 Post code / place: 3600 Thun  
 Country: Switzerland

### SAMPLE DATA

Name: Success 4  
 Size: M  
 Max load [kg]: 120  
 Serial number: 1135199  
 Date of reception: 19.05.2016

### ISSUE DATA

Place of inspection: Villeneuve  
 Date of inspection: 15.06.2016  
 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°] 22.2  
 RH [%] 51  
 [hPa] 1002.2

### 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]               | 36.1             | 39.5              | 39.52     |
| Impact duration at +38 [g] (if any): [ms] | 0.00             | 0.14              | 0.14      |
| Impact duration at +20 [g] (if any): [ms] | 21.74            | 20.71             | 21.74     |
| Uncertainty k=2 [%]                       | 7.00             | 7.00              |           |
| Uncertainty k=2 [g]                       | 2.53             | 2.77              |           |
| Repeat testing / max peak comparison [%]  | 100              | 109               |           |
| <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]               | 39.4             | 41.3              | 41.26     |
| Impact duration at +38 [g] (if any): [ms] | 4.02             | 6.80              | 6.80      |
| Impact duration at +20 [g] (if any): [ms] | 20.40            | 20.13             | 20.40     |
| Uncertainty k=2 [%]                       | 7.00             | 7.00              |           |
| Uncertainty k=2 [g]                       | 2.76             | 2.89              |           |
| Repeat testing / max peak comparison [%]  | 100              | 105               |           |
| <b>Test Result:</b>                       | <b>POSITIVE</b>  | <b>POSITIVE</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    |

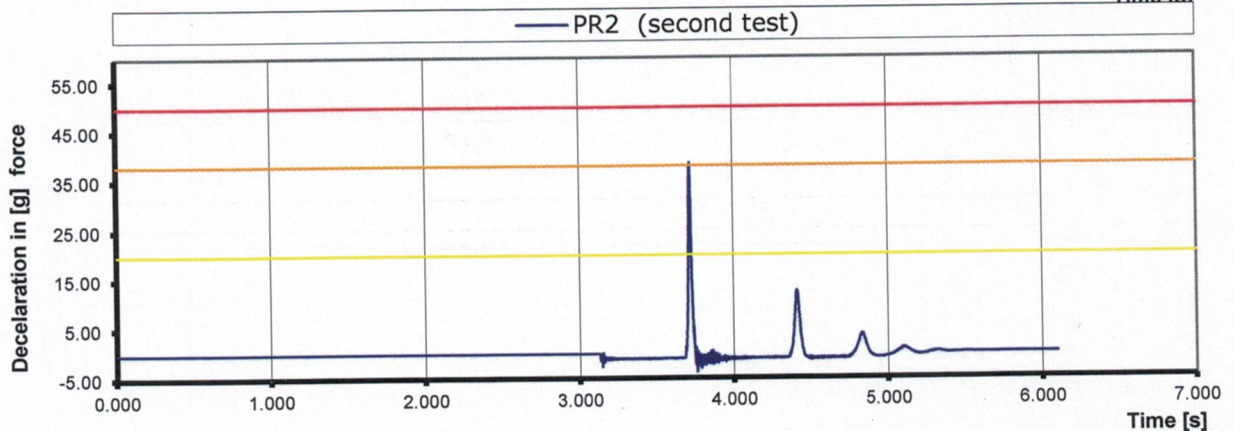
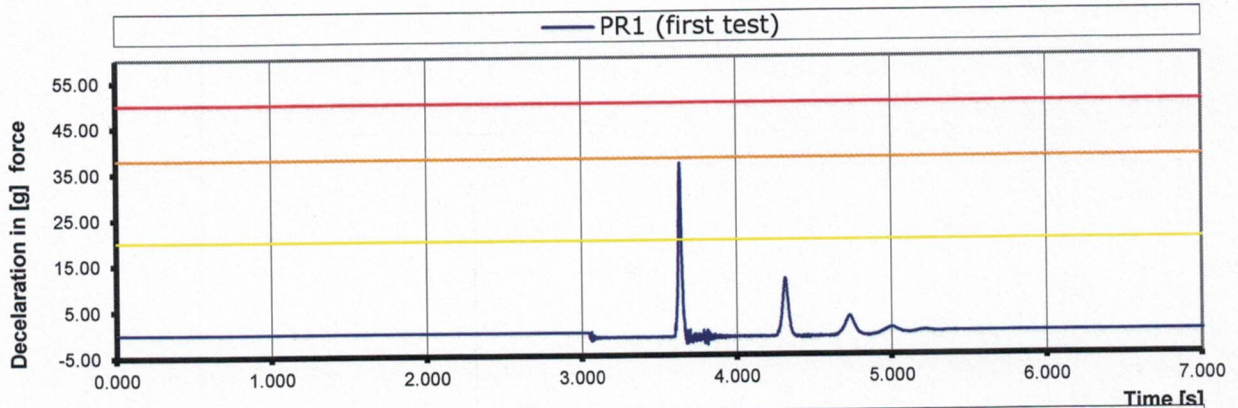
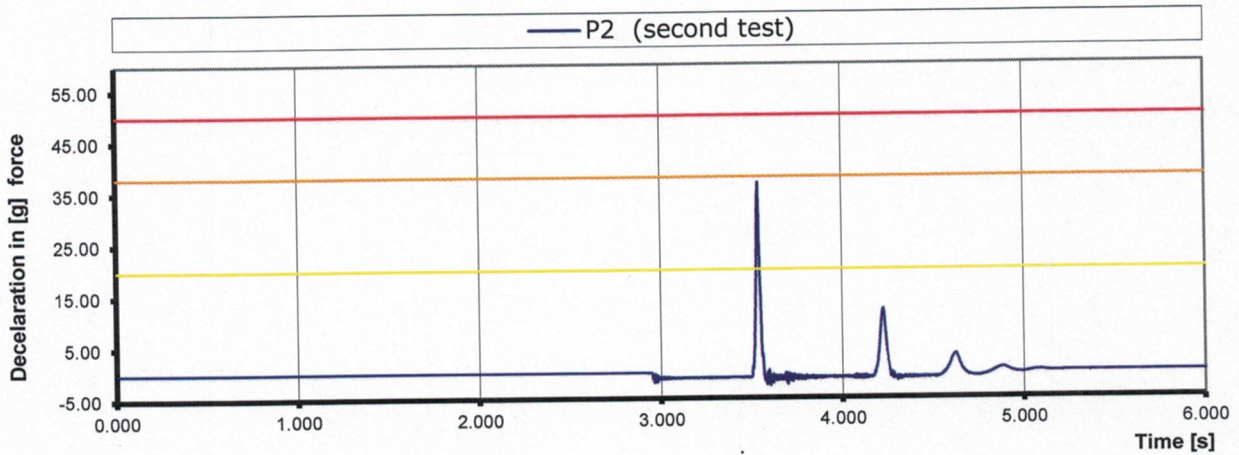
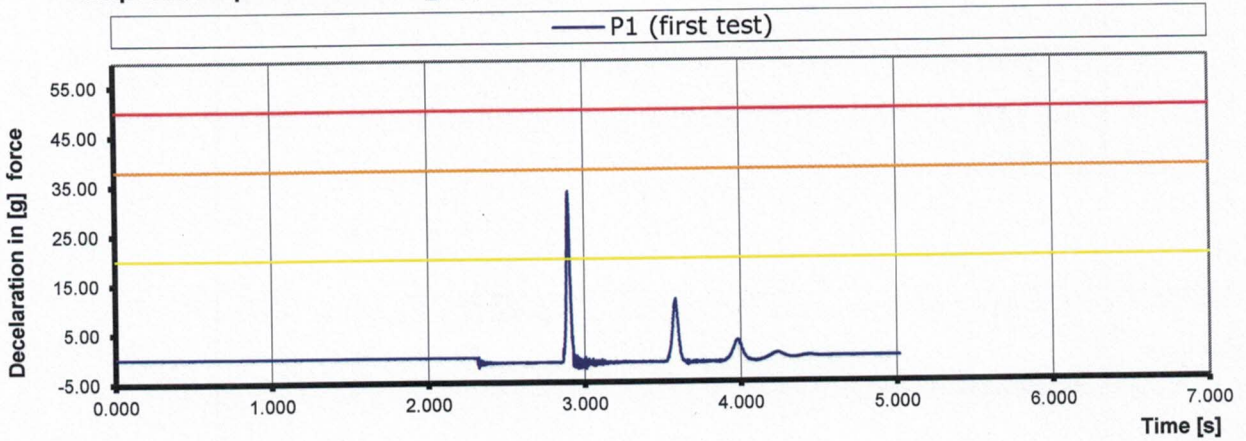
The validation of this test report is given by the signature of the test manager on Inspection Certificate 71.9.2

# IMPACT PAD SHOCK TEST

# TEST REPORT PH IP

BP PARAGLIDERS HARNESS BACK PROTECTORS

Inspection report number: PH\_IP\_170.2016



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