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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Harness inspection certificate - EN

Inspection certificate number:

PH 382.2022

Impact pad number:

PH_382.2022

Manufacturer data

Manufacturer name:

Advance Thun AG

Representative:

Rolf Zeltner

Street:

Uttigenstrasse 87

Post code / place:

3600 Thun

Country:

Switzerland

Sample data:

Harness

Impact pad

Name: Type: BIPAX 2

Name Impact pad: (1)
Impact pad integrated: (1)

n/a No

Size:

ABS M

Impact pad type:
Weight of Sample [kg]: (1)

Hybrid 0.60 1150061

Weight of Sample [kg]: Serial number: 1.80 1150061

Serial number:(1)

Date of reception:

18.02.2019

Clip-in weight [kg]: Integrated container for

Volume container [cm3]:

120 No

n/a max

n/a min

Date of reception:

rescue system:

18.02.2019

n/a mii

Test report summary

Structual test

Impact pad test

Result Place Date POSITIVE Villeneuve 21.08.2019 POSITIVE Villeneuve 18.02.2019

Issue data

Place of declaration:

Date of issue:

Managing Director:

Signature:

Villeneuve 14.02.2023

Andrea Wigger

This signature approve the validity of the test reports 94.21b and 94.22 (only if test reports are applicable)

Air Turquoise SA, has thoroughly tested the sample mentioned above and certifies its conformity with the following standards:

EN1651:2018+A1:2020⁽²⁾ and EN12491:2015+A1:2021⁽²⁾

The certificate of inspection is completed with test reports, if available, number: 94.21b and 94.22 The declaration must not be reproduced in part without the written permission of Air Turquoise SA

⁽¹⁾ 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

⁽²⁾ These standards are NOT covered by accreditation D-IS-19457-01

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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Harness inspection certificate - NfL

Inspection certificate number:

PH 382.2022

Impact pad number:

PH 382.2022

Manufacturer data

Manufacturer name:

Advance Thun AG

Representative:

Rolf Zeltner

Street:

Uttigenstrasse 87

Post code / place: Country: 3600 Thun Switzerland

Sample data:

Harness

Impact pad

Name: Type: BIPAX 2 ABS Name Impact pad: (1)
Impact pad integrated: (1)

n/a No Hybrid

Size:

ABS M 1.80

Impact pad type:
Weight of Sample [kg]: (1)
Serial number: (1)

0.60 1150061

Serial number: Clip-in weight [kg]:

Weight of Sample [kg]:

1150061 120

No

Date of reception:

18.02.2019

Integrated container for rescue system:

Volume container [cm³]:

n/a max

n/a min

Date of reception:

18.02.2019

Test report summary

Structual test

Impact pad test

Result Place Date POSITIVE Villeneuve 21.08.2019 POSITIVE Villeneuve 18.02.2019

Issue data

Place of declaration:

Date of issue:

Managing Director: Signature:

Villeneuve

14.02.2023

Andrea Wigger

This signature approve the validity of the test reports 94.21a and 94.22 (only if test reports are applicable)

Air Turquoise SA, has thoroughly tested the sample mentioned above and certifies its conformity with the following standards:

NfL 2-565-20, EN12491:2015 and EN1651:1999

The certificate of inspection is completed with test reports, if available, number: 94.21a and 94.22. The declaration must not be reproduced in part without the written permission of AIR TURQUOISE SA

⁽¹⁾ 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. (2) If harness has an integrated inner container for emergency parachute, extra deployment tests are done.

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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Harness Impact Pad Report

Inspection certificate number: PH_382.2022

Manufacturer data: Sample data:

Advance Thun AG Manufacturer name: Name impact pad: n/a Representative: **Rolf Zeltner** Impact pad intgrated: No **Uttigenstrasse 87** Hybrid Street: Impact pad type: 3600 Thun Post code place: Weight of sample [kg]: 0.6 **Switzerland** Serial number: 1150061 Country:

Date of test: 18.02.2019

Harness model: BIPAX 2

Atmosphere AGL:

| Temp. | [C°] | 23 |
|--------|-------|-----|
| R.H. | [%] | 33 |
| Press. | [hPa] | 978 |

Summary of Impact pad test (1)

| | _ | | Max Peak of | Duration at 38 [g] | Duration at 20 | Diff. of test 1 | |
|---------|---|---|----------------|------------------------|----------------------------|--------------------------|----------|
| Test id | | Test configuration (2) | Impact [g] (3) | in [ms] ⁽⁴⁾ | [g] in [ms] ⁽⁵⁾ | and 2 [%] ⁽⁶⁾ | Result |
| Р | ٧ | Test sample attached to dummy in flying position, without emergency parachute | 35.53 | 0.00 | 20.83 | 0.42 | POSITIVE |
| PR | | Test sample attached to dummy in flying position, Including emergency parachute | 0.00 | 0.00 | 0.00 | n/a | n/a |

| Manufacturer | 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 | Unit11 | 18.06.2025 |

The validation of this test report is given by the signature of the test manager on the Inspection Certificate no 94.20a or 94.20b

Air Turquoise SA, has thoroughly tested the sample mentioned above and certifies its conformity with the following standards:

NfL 2-565-20 and EN1651:2018+A1:2020⁽⁷⁾

⁽¹⁾ Calculated values 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%

⁽²⁾ 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

⁽³⁾ Maximum peak of impact should be less or equal to 50 [g], (4) If any, the maximum duration in at 38 [g] should be less or equal to 7 [ms], (5) If any, the maximum duration in at 20 [g] should be less or equal to 25 [ms]. (6) The test should be done twice, and the 2nd test the maximum peak should not differe more than 20% from the first test, maximum peak.

 $^{^{\}left(7\right)}$ This standard is NOT covered by accreditation D-IS-19457-01

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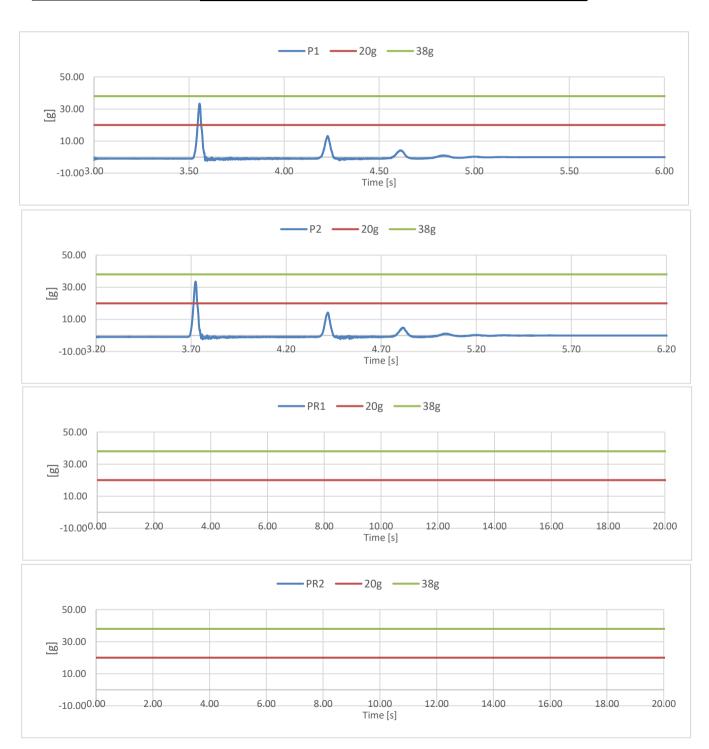
Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Inspection certificate number: PH_382.2022 Name impact pad: n/a

Test results of Impact pad test

| | without emerger | ncy parachute | including emergency parachute | |
|------------------------------------|-----------------|---------------|-------------------------------|------|
| | P1 | P2 | PR1 | PR2 |
| Maximum peak of impact [g] | 35.39 | 35.53 | 0.00 | 0.00 |
| Impact duration at +38 [g] in [ms] | 0.00 | 0.00 | 0.00 | 0.00 |
| Impact duration at +20 [g] in [ms] | 20.00 | 20.83 | 0.00 | 0.00 |
| Uncertainty k=2 [g] | 2.04 | 2.04 | 0.00 | 0.00 |
| Diff. between test 1 and 2 [%] | 100.00 | 100.42 | 100.00 | 0.00 |



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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Harness Structural test Report - EN

Inspection certificate number: PH_382.2022

Manufacturer data: Sample data:

Advance Thun AG BIPAX 2 Manufacturer name: Name: Representative: **Rolf Zeltner ABS** Type: **Uttigenstrasse 87** М Street: Size: 3600 Thun 1150061 Post code place: Serial number: Impact pad type: (1) Switzerland Hybrid Country:

Clip-in weight [kg]: 120

Date of test: 21.08.2019

Atmosphere AGL:

| [C°] | 22 | |
|--------|-----|--|
| RH [%] | 56 | |
| [hPa] | 980 | |

Summary of Structural test

| | | | Req. Load | | | |
|-------------------|------------|---------------------------------------|-----------|---------------|-------------------|----------|
| Test id | - EN 1651 | Setup | [g] | Req. Load [N] | Min. duration [s] | Result |
| 01 (3) | V 5.5.1.1 | Positive symmetric load (Slippage) | 4.5 | 5400 | 5 | POSITIVE |
| 03 (3) | V 5.5.1.1b | Positive symmetric load | 15 | 18000 | 5 | POSITIVE |
| 05 | V 5.5.1.2 | Positive asymmetric load | 6 | 7200 | 5 | POSITIVE |
| 06 | V 5.5.1.6 | Negative symmetric load | 6 | 7200 | 5 | POSITIVE |
| 08 (5) | 5.5.1.9 | Anti falling-out system | 4.5 | 5400 | 5 | n/a |
| 09 (3)(4) | 5.5.1.3 | Positive symmetric load rescue points | 15 | 18000 | 5 | n/a |
| 10 (3)(4) | 5.5.1.4 | Negative symmetric load rescue points | 15 | 18000 | 5 | n/a |
| 11 | 5.5.1.8 | Connecting element for rescue | n/a | 24000 | 0.3 | n/a |
| 12 ⁽³⁾ | V 5.5.1.7 | Upright (landing) position load | 6 | 7200 | 5 | POSITIVE |
| 14 | 5.5.1.5 | Negative symmetric load towing points | 5 | 6000 | 5 | n/a |

Rescue deployment test

| | | | Min load | | | | |
|---------|-----------|-------------------------|----------|---------------|--------------|--------|--|
| Test id | - EN 1651 | Setup | [N] | Max. load [N] | Measured [N] | Result | |
| RRDT | 5.5.1.11 | Default flying position | 20 | 70 | 0.00 | n/a | |

Rescue Deployment Handle strength test

| Test id | - EN 12491 | Setup | Req. Load [Min. du | ration [s] | Breaking strength | [Result |
|---------|------------|--------------------------|---------------------|------------|-------------------|----------|
| RRST | 5.3.2 | Two end points of handle | 700 | 10 | 0.00 | n/a |

| Manufacturer | Instrument | Type no | S/N | Validity |
|---------------|----------------------|--------------------|----------|------------|
| HBM | Load Sensor GE01 | 1-S9M/50KN-1 | 31314643 | 04.09.2023 |
| Burster / MTS | Load sensor 10kN SL2 | 8431-6010-N000S000 | 593507 | 21.04.2026 |
| JDC elec | Geos n°11 Skywatch | Geos n°11 | Unit11 | 18.06.2025 |

Air Turquoise SA, has thoroughly tested the sample mentioned above and certifies its conformity with the following standards:

EN1651:2018+A1:2020⁽⁶⁾ and EN12491:2015+A1:2021⁽⁶⁾

The validation of this test report is given by the signature of the test manager on the Inspection Certificate no 94.20b

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%

⁽¹⁾ If Impact pad available, see test report no. 94.22 and inspection certificate no. 94.20b. (3) Slipping test of any adjustable components: No slippage of any adjustable element more than 10 mm at 4500N for 5 s. The marks should be added with a pre-load of 1000N. (4) For harness with integrated Y bridle, test in the end loop (5) Attach to anti-falling out system without connecting the crotch straps (breast straps)

⁽⁶⁾ These standards are NOT covered by accreditation D-IS-19457-01

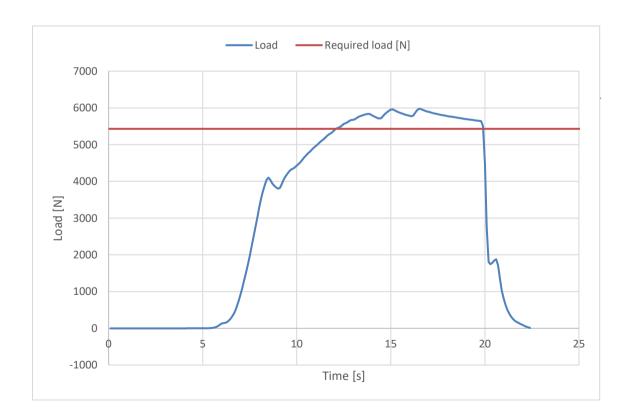
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Inspection certificate number: PH_382.2022 model: BIPAX 2

| | Test ID 01 |
|------------------------------------|--|
| EN 1651 | |
| 5.5.1.1 | |
| Positive symmetric load (Slippage) | |
| Both main riser attachment (3,4) | |
| Dummy (B1, B2) | |
| 4.5 | |
| 5400 | |
| 5 | |
| | |
| 7.9 | F/2 Å Å F/2 |
| No | $\backslash \perp \mid \perp \rangle$ |
| Yes | \3 4/ |
| POSITIVE |) [|
| | |
| | B1 B2 |
| | |
| | F/2 V V F/2 |
| | |
| | 5.5.1.1 Positive symmetric load (Slippage) Both main riser attachment (3,4) Dummy (B1, B2) 4.5 5400 5 7.9 No |



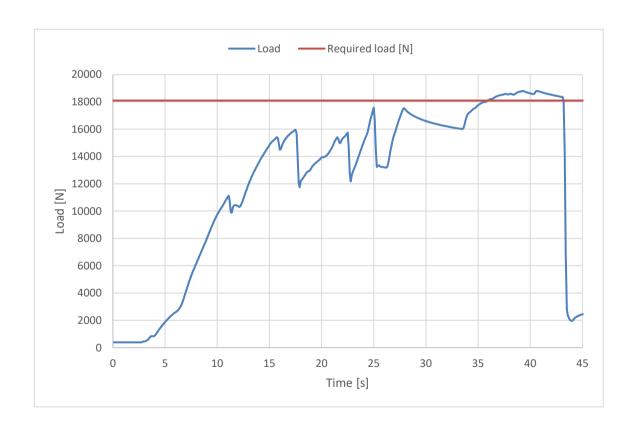
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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Inspection certificate number: PH_382.2022 model: BIPAX 2

| Harness Structural test | | Test ID 03 |
|---------------------------------|----------------------------------|---------------------------------|
| Standard | EN 1651 | |
| Reference in standard | 5.5.1.1b | |
| Test setup | Positive symmetric load | |
| Attachment points | Both main riser attachment (3,4) | |
| Anchor points | Dummy (B1, B2) | |
| Required load [g] | 15 | |
| Required load [N] | 18000 | |
| Minimum test duration [s] | 5 | |
| Result | | |
| Test duration [s] | 7.2 | F/2 Å Å F/2 |
| Any signs of structural failure | No | $\backslash \perp \mid \perp /$ |
| Slippery test OK | Yes | (3) 4/ |
| Test results | POSITIVE |) [|
| | | |
| | | B1 |
| | | |
| | | F/2 V F/2 |
| | | |
| | | |



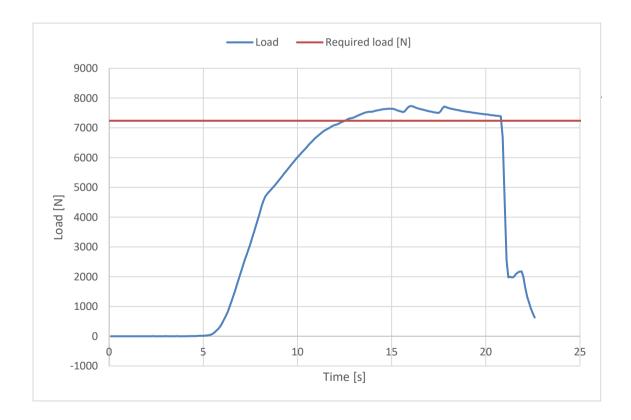
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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Inspection certificate number: PH_382.2022 model: BIPAX 2

| Harness Structural test | | Test ID 05 |
|---------------------------------|-------------------------------|------------|
| Standard | EN 1651 | |
| Reference in standard | 5.5.1.2 | |
| Test setup | Positive asymmetric load | |
| Attachment points | One riser attachment (3 or 4) | |
| Anchor points | Dummy (C) | |
| Required load [g] | 6 | ^ |
| Required load [N] | 7200 | |
| Minimum test duration [s] | 5 | |
| Result | | ∫ F / |
| Test duration [s] | 8.3 | B1 /3 / |
| Any signs of structural failure | No | |
| Test results | POSITIVE | |
| | | \bigvee |
| | | B2 |
| | | |
| | | δ c |
| | | ♥ F |
| | | |



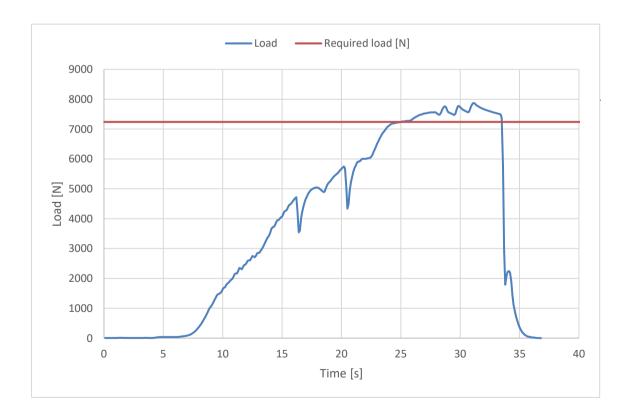
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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Inspection certificate number: PH_382.2022 model: BIPAX 2

| | Test ID 06 |
|----------------------------------|--|
| EN 1651 | |
| 5.5.1.6 | |
| Negative symmetric load | |
| Both main riser attachment (3,4) | |
| Dummy (A) | |
| 6 | Å F |
| 7200 | 1 ′ |
| 5 | |
| | |
| 8.5 | |
| No | |
| POSITIVE | |
| | \P \P/ |
| |) ▼ ^{F/2} |
| | |
| | () () |
| | |
| | · |
| | 5.5.1.6 Negative symmetric load Both main riser attachment (3,4) Dummy (A) 6 7200 5 |



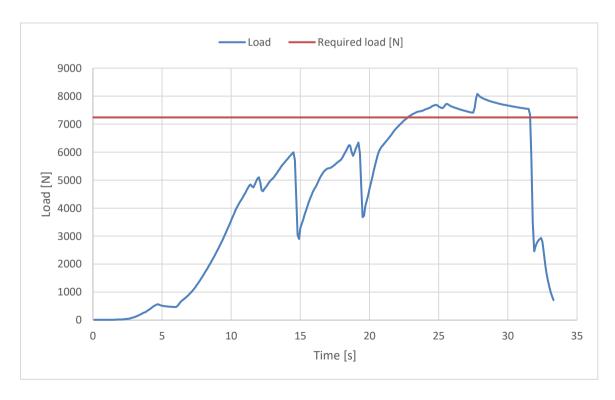
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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Inspection certificate number: PH_382.2022 model: BIPAX 2

| Harness Structural test | | | | Test ID 12 |
|---------------------------------|--------------------|---------------|----------------|------------|
| Standard | EN 1651 | | | |
| Reference in standard | 5.5.1.7 | | | |
| Test setup | Upright (landing) | | | |
| Attachment points | Both main riser at | | | |
| Anchor points | Both legstrap of h | arness (no du | ummy) | |
| Required load [g] | 6 | | | |
| Required load [N] | 7200 | | | |
| Minimum test duration [s] | 5 | | | |
| Harness type | type c | | | |
| Result | | | | |
| Test duration [s] | 8.9 | | | |
| Any signs of structural failure | No | | | |
| Slippery test OK | Yes | | | |
| Test results | POSITIVE | | | |
| F/2 | F/2 F/2 3 | F/2 | F/2 1 F/2 | |
| F/2 W F/2 | F/2 | F/2 | F/2 V F/2 | |
| harness type a | harn | ess type b | harness type c | |
| | | | | |



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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Harness Structural test Report - NfL

Inspection certificate number: PH_382.2022

Manufacturer data:

Advance Thun AG

Manufacturer name: Representative: **Rolf Zeltner Uttigenstrasse 87** Street:

3600 Thun Post code place: Switzerland

Country:

Sample data:

BIPAX 2 Name: **ABS**

Type: Size:

1150061 Serial number:

Impact pad type: (1) Hybrid

Clip-in weight [kg]: 120

Integrated

No container:

Date of test: 21.08.2019

Atmosphere AGL:

| [C°] | 22 | |
|--------|-----|--|
| RH [%] | 56 | |
| [hPa] | 980 | |

Summary of Structural test

| Test id | - | EN 1651:1999 | Setup | Req. Load [g] | Req. Load [N] | Min. duration [s] | Result |
|---------|---|--------------|--------------------------------|---------------|---------------|-------------------|----------|
| 02 | ٧ | 5.3.2.1 | Default flying position | 6 | 7200 | 10 | POSITIVE |
| 03 | ٧ | 5.3.2.2 | Default flying position | 15 | 18000 | 5 | POSITIVE |
| 04 | ٧ | 5.3.2.3 | Asymmetric, one riser | 6 | 7200 | 10 | POSITIVE |
| 07 | ٧ | 5.3.2.6 | Asymmetric, negative | 4.5 | 5400 | 10 | POSITIVE |
| 09 | | 5.3.2.4 | Rescue attachments | 15 | 18000 | 5 | n/a |
| 13 | ٧ | 5.3.2.7 | Flying position before landing | 15 | 18000 | 5 | POSITIVE |
| 14 | | 5.3.2.5 | Towing | 5 | 6000 | 10 | n/a |

Rescue deployment test

| Test id | - NfL 2-565-20 | Setup | Min load [N] | Max. load [N] | Measured [N] | Result |
|---------|----------------|-------------------------|--------------|---------------|--------------|--------|
| RRDT | 6.1.5 | Default flying position | 20 | 70 | 0.00 | n/a |

Rescue Deployment Handle strength test

| Test id | - EN 12491 | Setup | Req. Load [N] | Min. duration [s] | Breaking strength [N] | Result |
|---------|------------|--------------------------|---------------|-------------------|-----------------------|--------|
| RRST | 5.3.2 | Two end points of handle | 700 | 10 | 0.00 | n/a |

Rescue deployment test with integrated container for rescue system

| Test id | - NfL 2-565-20 | Setup | Result |
|---------|----------------|--|--------|
| RDIC | 4.3.2-4.3.6 | Release of the container at maximum volume | n/a |

| Manufacturer | Instrument | Type no | S/N | Validity |
|---------------|----------------------|--------------------|----------|------------|
| HBM | Load Sensor GE01 | 1-S9M/50KN-1 | 31314643 | 04.09.2023 |
| Burster / MTS | Load sensor 10kN SL2 | 8431-6010-N000S000 | 593507 | 21.04.2026 |
| JDC elec | Geos n°11 Skywatch | Geos n°11 | Unit11 | 18.06.2025 |

Air Turquoise SA, has thoroughly tested the sample mentioned above and certifies its conformity with the following standards:

NfL 2-565-20, EN12491:2015 and EN1651:1999

 $^{^{(1)}}$ If Impact pad available, see test report no. 94.22 and inspection certificate no. 94.20a

Calculated values 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%.

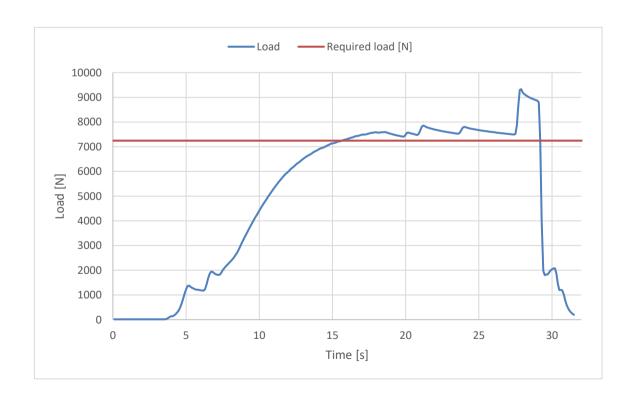
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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Inspection certificate number: PH_382.2022 model: BIPAX 2

| Harness Structural test | | Test ID 02 |
|---------------------------------|----------------------------------|---------------------------------|
| Standard | EN 1651:1999 | |
| Reference | 5.3.2.1 | |
| Test setup | Default flying position | |
| Attachment points | Both main riser attachment (3,4) | |
| Anchor points | Dummy (B1, B2) | |
| Required load [g] | 6 | |
| Required load [N] | 7200 | |
| Minimum test duration [s] | 10 | |
| Result | | |
| Test duration [s] | 13.5 | F/2 ↓ ↓ F/2 |
| Any signs of structural failure | No | $\backslash \perp \mid \perp /$ |
| Test results | POSITIVE | \3 4/ |
| | |) |
| | | |
| | | B1 B2 |
| | | |
| | | F/2 ♥ |
| | | |



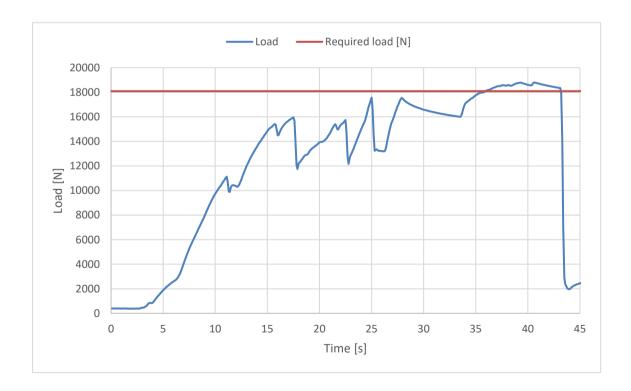
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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Inspection certificate number: PH_382.2022 model: BIPAX 2

| Harness Structural test | | Test ID 03 |
|---------------------------------|----------------------------------|------------|
| Standard | EN 1651:1999 | |
| Reference | 5.3.2.2 | |
| Test setup | Default flying position | |
| Attachment points | Both main riser attachment (3,4) | |
| Anchor points | Dummy (B1, B2) | |
| Required load [g] | 15 | |
| Required load [N] | 18000 | |
| Minimum test duration [s] | 5 | |
| Result | | |
| Test duration [s] | 7.2 | F/2 Å |
| Any signs of structural failure | No | |
| Test results | POSITIVE | \3 4/ |
| | |) |
| | | |
| | | B1 B2 |
| | | |
| | | F/2 ▼ |
| | | |



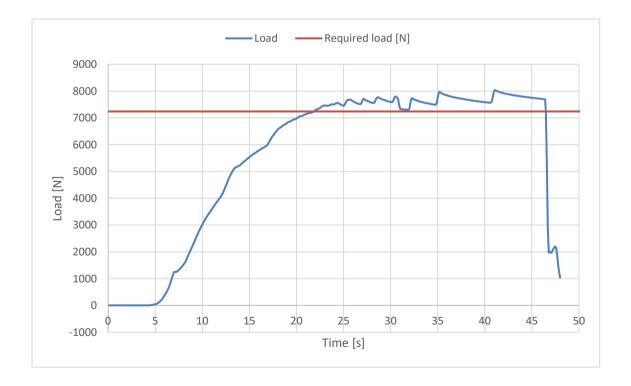
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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Inspection certificate number: PH_382.2022 model: BIPAX 2

| Harness Structural test | | Test ID 04 |
|---------------------------------|-------------------------------|---------------------------------------|
| Standard | EN 1651:1999 | |
| Reference | 5.3.2.3 | |
| Test setup | Asymmetric, one riser | |
| Attachment points | One main riser attachment (3) | |
| Anchor points | Dummy (B1,B2) | |
| Required load [g] | 6 | |
| Required load [N] | 7200 | |
| Minimum test duration [s] | 10 | |
| Result | | ∫ F |
| Test duration [s] | 24.6 | B1 3 |
| Any signs of structural failure | No | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |
| Test results | POSITIVE | ()/_ / |
| | | |
| | | B2 |
| | | |
| | | Ϋ́c |
| | | ▼ F |
| | | |
| | | |



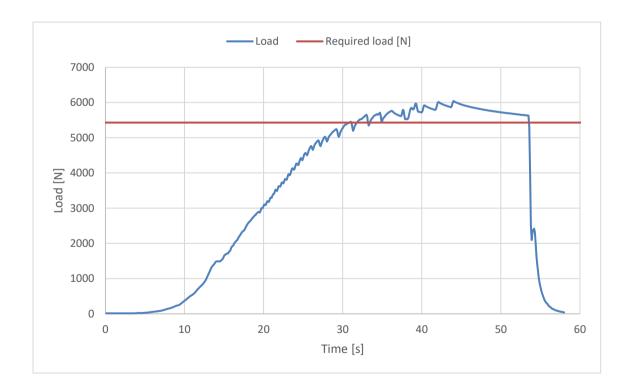
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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Inspection certificate number: PH_382.2022 model: BIPAX 2

| Harness Structural test | | Test ID 07 |
|---------------------------------|-----------------------|-------------------------|
| Standard | EN 1651:1999 | |
| Reference | 5.3.2.6 | |
| Test setup | Asymmetric, negative | |
| Attachment points | One main riser attach | ment (3 or 4) downwards |
| Anchor points | Dummy (9) | |
| Required load [g] | 4.5 | \mathfrak{L}^{F} |
| Required load [N] | 5400 | 9 |
| Minimum test duration [s] | 10 | |
| Result | | 7 |
| Test duration [s] | 20.1 | |
| Any signs of structural failure | No | 3/4 / |
| Test results | POSITIVE | |
| | | |
| | | |
| | | |
| | | |
| | | 15 |
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| Harness Structural test | | Test ID 13 |
|---------------------------------|----------------------------------|------------|
| Standard | EN 1651:1999 | |
| Reference | 5.3.2.7 | |
| Test setup | Flying position before landing | |
| Attachment points | Both main riser attachment (3,4) | |
| Anchor points | Dummy (7,8) | |
| Required load [g] | 15 | |
| Required load [N] | 18000 | |
| Minimum test duration [s] | 5 | |
| Result | | F. (+) |
| Test duration [s] | 7.6 | H |
| Any signs of structural failure | No | 3/44 |
| Test results | POSITIVE | |
| | | 10 |
| | | 7/8 F 11 |

