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Test laboratory for paragliders, paraglider harnesses
and paraglider reserve parachutes

paragliding by air turquoise

Miscellaneous Impact Pad Report

Inspection certificate number: **MISC_272.2023**

Manufacturer data:

Manufacturer name:	**Niviuk Gliders**
Representative:	**Dominique Cizeau**
Street:	**C. Del Ter, 6-Nave D**
Post code place:	**17165 La Cellera de Ter Girona**
Country:	**Spain**
Harness model:	**Arrow P, Arrow P R**

Sample data:

Name impact pad:	**APAIR**
Emergency parachute integrated:	**No**
Impact pad type:	**Inflatable**
Weight of sample [kg]:	**0.24**
Serial number:	**APAIR4-1**
Date of test:	**21.11.2023**

Atmosphere AGL:

Temp. [C°]	**20**
R.H. [%]	**48**
Press. [hPa]	**1002**

Summary of Impact pad test (1)

Test id	–	Test configuration (2)	Max Peak of Impact [g] (3)	Duration at 38 [g] in [ms] (4)	Duration at 20 [g] in [ms] (5)	Diff. of test 1 and 2 [%] (6)	Result
P	V	Test sample attached to dummy in flying position, without emergency parachute	**41.71**	**5.83**	**20.00**	**0.81**	**POSITIVE**
PR	V	Test sample attached to dummy in flying position, Including emergency parachute	**41.46**	**5.00**	**20.00**	**5.58**	**POSITIVE**

Issue data

Place of declaration: **Villeneuve**
Date of issue: **23.11.2023**
Managing director: **Alain Zoller**
Signature:

revision02: 20.03.2026
Added new model (page 3 and 4)
This revision cancels and replaces the previous one.

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

This signature approves the validity of the test report

Air Turquoise SA has thoroughly tested the sample of emergency parachute container mentioned above and certifies its conformity with the following standards:
EN 1651:2018+A1:2020(7), NfL 2-565-20

(1) 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%.

(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.

(7) This standards is NOT covered by accreditation D-IS-19457-01

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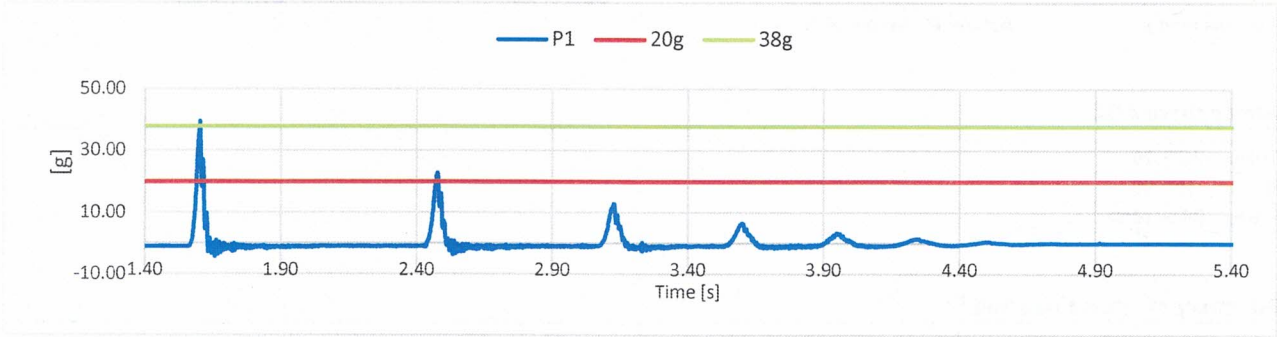
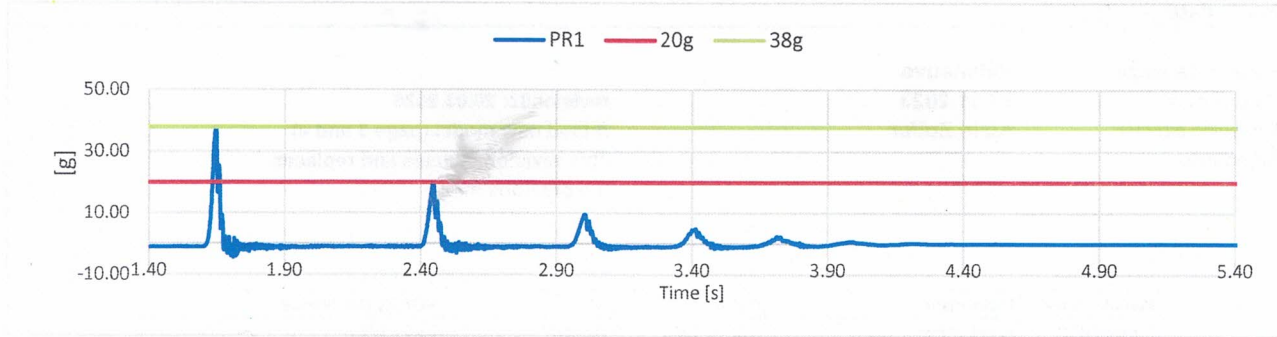
paragliding by air turquoise

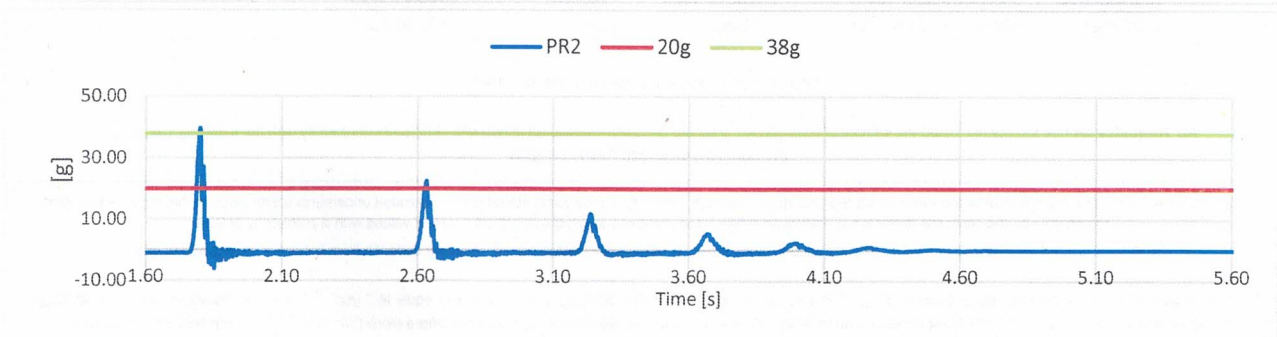
Inspection certificate number: **MISC_272.2023** Name impact pad: **APAIR**

Test results of Impact pad test

	without emergency parachute		including emergency parachute	
	P1	P2	PR1	PR2
Maximum Peak of impact [g]	**41.37**	**41.71**	**39.27**	**41.46**
Impact duration at +38 [g] in [ms]	**5.00**	**5.83**	**3.33**	**5.00**
Impact duration at +20 [g] in [ms]	**19.17**	**20.00**	**19.17**	**20.00**
Uncertainty k=2[g]	**1.73**	**1.75**	**1.65**	**1.74**
Diff. between test 1 and 2 [%]	**100.00**	**100.81**	**100.00**	**105.58**







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Miscellaneous Impact Pad Report

Inspection certificate number: **MISC_272.2023**

Manufacturer data:

Manufacturer name:	**Niviuk Gliders**
Representative:	**Dominique Cizeau**
Street:	**C. Del Ter, 6-Nave D**
Post code place:	**17165 La Cellera de Ter Girona**
Country:	**Spain**
Harness model:	**Arrow P 2**

Sample data:

Name impact pad:	**APAIR**
Emergency parachute integrated:	**No**
Impact pad type:	**Inflatable**
Weight of sample [kg]:	**0.24**
Serial number:	**APAIR4-1**
Date of test:	**20.11.2025**

Atmosphere AGL:

Temp. [C°]	**20**
R.H. [%]	**45**
Press. [hPa]	**975**

Summary of Impact pad test [1]

Test id	–	Test configuration [2]	Max Peak of Impact [g] [3]	Duration at 38 [g] in [ms] [4]	Duration at 20 [g] in [ms] [5]	Result
P	V	Test sample attached to dummy in flying position, without emergency parachute	**39.27**	**5.00**	**25.00**	**POSITIVE**
PR	V	Test sample attached to dummy in flying position, Including emergency parachute	**35.81**	**0.00**	**25.00**	**POSITIVE**

Issue data

Place of declaration: **Villeneuve**
Date of issue: **20.11.2025**
Managing director: **Alain Zoller**
Signature:

revision02: 20.03.2026
Added new model (page 3 and 4)
This revision cancels and replaces the previous one.

Manufacturer	Instrument	Type no	S/N	Validity Calibration	
Burster/MTS	Accelerometer 100 g	89010-100	1263567	23.08.2028	
JDC elec	Geos n°11 Skywatch	Geos n°11	Unit11	18.06.2025	

This signature approves the validity of the test report

Air Turquoise SA has thoroughly tested the sample of emergency parachute container mentioned above and certifies its conformity with the following standards:
EN 1651:2018+A1:2020, NfL 2024-2-785

[1] 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%.

[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].

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Inspection certificate number: **MISC_272.2023** Name impact pad: **APAIR**

Test results of Impact pad test

	without emergency parachute	including emergency parachute
	P1	**PR1**
Maximum Peak of impact [g]	**39.27**	**35.81**
Impact duration at +38 [g] in [ms]	**5.00**	**0.00**
Impact duration at +20 [g] in [ms]	**25.00**	**25.00**
Uncertainty k=2[g]	**1.65**	**1.50**