

Harness Impact Pad Report

Inspection certificate number: **PH_283.2019**
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: **Not related to specific model**

Sample data:

Name impact pad: **n/a**
 Impact pad integrated: **Yes**
 Impact pad type: **Foam**
 Serial number: **Makan M V5**
 Weight of sample [kg]: **3.48**
 Date of test: **05.06.2019**

Atmosphere AGL:

[C°]	24.1
RH [%]	51
[hPa]	961.6

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	35.13	0.00	17.50	8.42	POSITIVE
PR	V	Test sample attached to dummy in flying position, Include emergency parachute	34.13	0.00	17.50	-1.22	POSITIVE

Manufacture	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	22	08.05.2020

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

⁽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 differ more than 20% from the first test, maximum peak.

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Name impact pad: **n/a**

Test results of Impact pad test

	without emergency parachute		include emergency parachute	
	P1	P2	PR1	PR2
Maximum Peak of impact [g]	32.40	35.13	34.13	32.91
Impact duration at +38 [g] in [ms]	0.00	0.00	0.00	0.00
Impact duration at +20 [g] in [ms]	17.50	16.67	17.50	17.50
Uncertainty k=2[g]	1.86	2.02	1.96	1.89
Difference of test 1 and 2 [%]	100.00	108.42	100.00	96.43

