

# Miscellaneous Impact Pad Report

Inspection certificate number: **MISC\_192.2021**

## 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: **Hakfo**  
 Emergency parachute integrated: **No**  
 Impact pad type: **Foam**  
 Serial number: **HAKFO2.0**  
 Weight of sample [kg]: **0.402**  
 Date of test: **01.06.2021**

## Atmosphere AGL:

[C°]	<b>20</b>
RH [%]	<b>44</b>
[hPa]	<b>1005</b>

## Summary of Impact pad test <sup>(1)</sup>

Test id	Test configuration <sup>(2)</sup>	Max Peak of Impact [g] <sup>(3)</sup>	Duration at 38 [g] in [ms] <sup>(4)</sup>	Duration at 20 [g] in [ms] <sup>(5)</sup>	Diff. of test 1 and 2 [%] <sup>(6)</sup>	Result
P	Test sample attached to dummy in flying position, without emergency parachute	<b>34.20</b>	<b>0.00</b>	<b>17.50</b>	<b>2.25</b>	<b>POSITIVE</b>
PR	Test sample attached to dummy in flying position, Include emergency parachute	<b>33.60</b>	<b>0.00</b>	<b>17.50</b>	<b>2.04</b>	<b>POSITIVE</b>

## Issue data

Place of declaration: **Villeneuve**  
 Date of issue: **07.07.2021**  
 Managing director: **Andrea Wigger**

Signature:



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	22	08.05.2023

This signature approves the validity of the test reports if available. **Air Turquoise SA**, having thoroughly assessed the sample mentioned above, declares it was found conform with all requirements defined by the following norms:

Airworthiness Requirements **NfL 2-565-20** - European Standard **EN1651 :2018**

<sup>(1)</sup> 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%.

<sup>(2)</sup> 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.

<sup>(3)</sup> Maximum peak of impact should be less or equal to 50 [g], <sup>(4)</sup> If any, the maximum duration in at 38 [g] should be less or equal to 7 [ms], <sup>(5)</sup> If any, the maximum duration in at 20 [g] should be less or equal to 25 [ms]. <sup>(6)</sup> 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: **Hakfo**

**Test results of Impact pad test**

	without emergency parachute		include emergency parachute	
	P1	P2	PR1	PR2
Maximum Peak of impact [g]	<b>33.44</b>	<b>34.20</b>	<b>31.57</b>	<b>33.60</b>
Impact duration at +38 [g] in [ms]	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
Impact duration at +20 [g] in [ms]	<b>17.50</b>	<b>17.50</b>	<b>17.50</b>	<b>17.50</b>
Uncertainty k=2[g]	<b>1.92</b>	<b>1.97</b>	<b>1.82</b>	<b>1.93</b>
Difference of test 1 and 2 [%]	<b>100.00</b>	<b>102.25</b>	<b>100.00</b>	<b>106.45</b>

