

## Miscellaneous Impact Pad Report

Inspection certificate number: **MISC\_204.2022**

### Manufacturer data:

Manufacturer name: **Skywalk GmbH & Co. KG**  
 Representative: **Mr. Arne Wehrlin**  
 Street: **Windeckstrasse 4**  
 Post code place: **83250 Marquarstein**  
 Country: **Germany**

Harness model: **Not related to specific model**

### Sample data:

Name impact pad: **Permair C2**  
 Emergency parachute integrated: **No**  
 Impact pad type: **Inflatable**  
 Weight of sample [kg]: **0.278**  
 Serial number: **SPHERE01-4020-00001**  
 Date of test: **18.06.2020**

### Atmosphere AGL:

Temp. [C°]	<b>21.5</b>
R.H. [%]	<b>55</b>
Press. [hPa]	<b>970.5</b>

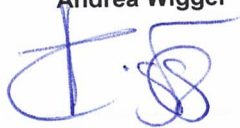
### Summary of Impact pad test <sup>(1)</sup>

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>29.22</b>	<b>0.00</b>	<b>18.33</b>	<b>0.11</b>	<b>POSITIVE</b>
PR	✓	Test sample attached to dummy in flying position, Including emergency parachute	<b>30.86</b>	<b>0.00</b>	<b>20.00</b>	<b>4.64</b>	<b>POSITIVE</b>

### Issue data

Place of declaration: **Villeneuve**  
 Date of issue: **26.11.2021**  
 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	Unit11	18.06.2025

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: **Permair C2**

**Test results of Impact pad test**

	without emergency parachute		including emergency parachute	
	P1	P2	PR1	PR2
Maximum Peak of impact [g]	<b>29.19</b>	<b>29.22</b>	<b>29.49</b>	<b>30.86</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>18.33</b>	<b>18.33</b>	<b>19.17</b>	<b>20.00</b>
Uncertainty k=2[g]	<b>1.68</b>	<b>1.68</b>	<b>1.70</b>	<b>1.78</b>
Diff. between test 1 and 2 [%]	<b>100.00</b>	<b>100.11</b>	<b>100.00</b>	<b>104.64</b>

