

Miscellaneous Impact Pad Report

Inspection certificate number: MISC_156.2020

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 B2
 Emergency parachute integrated: No
 Impact pad type: Inflatable
 Serial number: SACR1COOO-VS-0001
 Weight of sample [kg]: 0.204
 Date of test: 18.06.2020

Atmosphere AGL:

[C°]	22
RH [%]	55
[hPa]	970.3

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	Test sample attached to dummy in flying position, without emergency parachute	35.59	0.00	20.83	2.73	POSITIVE
PR	Test sample attached to dummy in flying position, Include emergency parachute	0.00	0.00	0.00	0.00	n/a

Rescue deployment test

Test id	NfL II 91/09	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

Issue data

Place of declaration: Villeneuve
 Date of issue: 10.09.2020
 Managing director: Alain Zoller

revision01: 10.07.2026

Add new model (Page 3 and 4) and name change

This revision cancels and replaces the previous one

Signature:

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

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

Airworthiness Requirements LTF NfL II 91/09 - European Standard EN1651 :2018

⁽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.

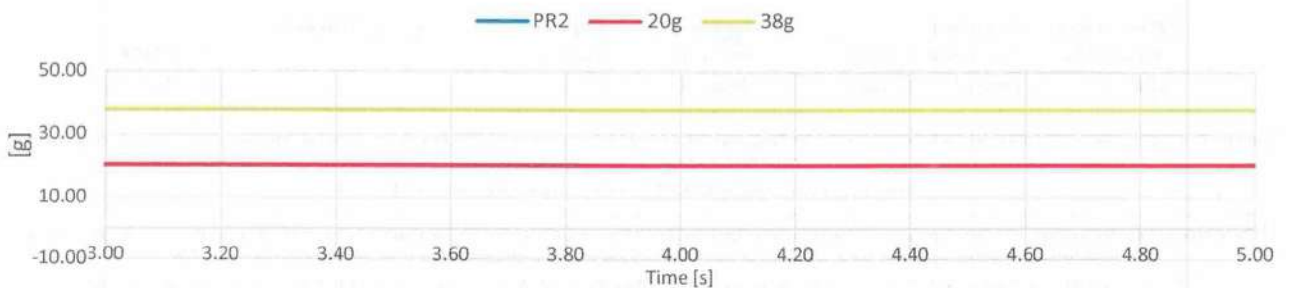
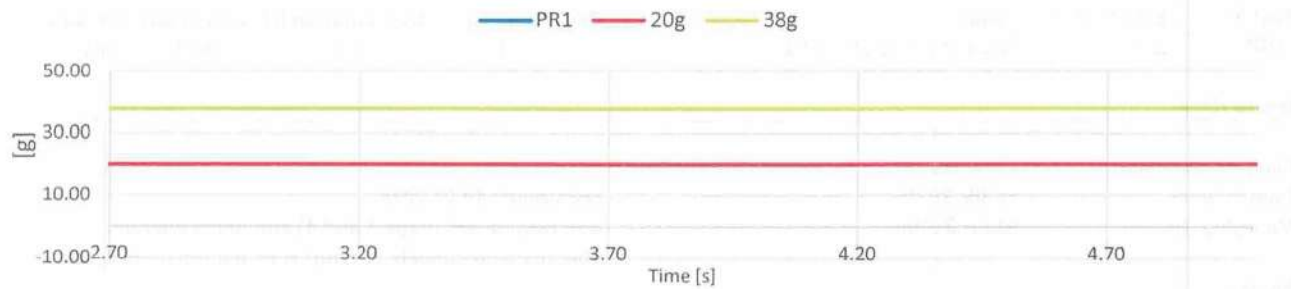
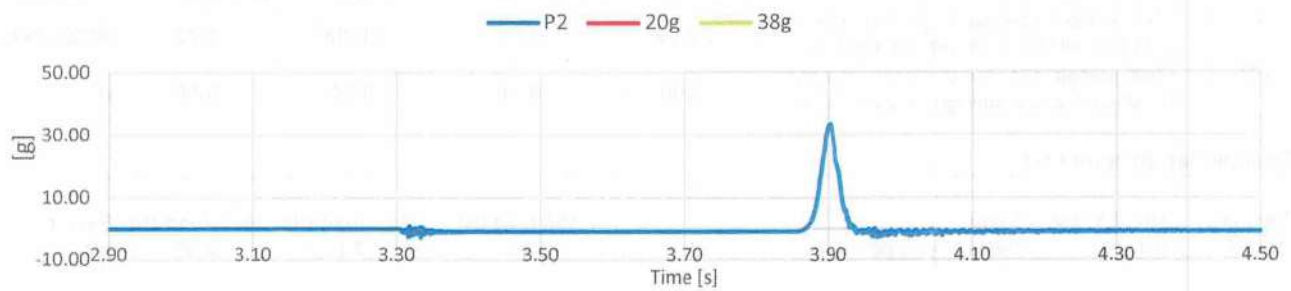
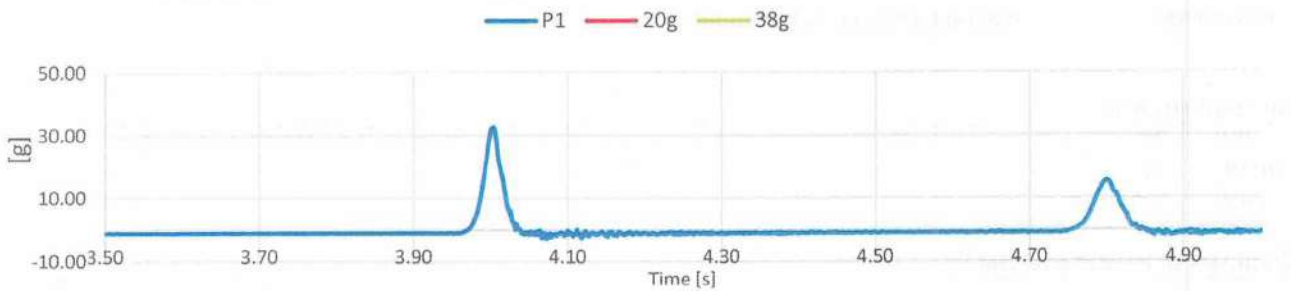
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Inspection certificate number: **MISC_156.2020**

Name impact pad: **Permair B2**

Test results of Impact pad test

	without emergency parachute		include emergency parachute	
	P1	P2	PR1	PR2
Maximum Peak of impact [g]	34.64	35.59	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]	20.83	20.83	0.00	0.00
Uncertainty k=2[g]	1.99	2.05	0.00	0.00
Difference of test 1 and 2 [%]	100.00	102.73	100.00	n/a





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

Sample data:

Name impact pad: **Permair B2**
 Emergency parachute integrated: **No**
 Impact pad type: **Inflatable**
 Weight of sample [kg]: **SACR1COOO-VS-0001**
 Serial number: **0.204**
 Date of test: **04.03.2026**

Atmosphere AGL:

Temp. [C°]	20
R.H. [%]	36
Press. [hPa]	981

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	✓	Test sample attached to dummy in flying position, without emergency parachute	33.44	0.00	24.17	POSITIVE
PR	✓	Test sample attached to dummy in flying position, including emergency parachute	33.65	0.00	24.17	POSITIVE

Issue data

Place of declaration: **Villeneuve**
 Date of issue: **10.07.2026**
 Managing director: **Andrea Wigger**
 Signature: 

revision01: 10.07.2026
 Add new model (page 3 and 4) and name change
 This revision cancels and replaces the previous one

Manufacturer	Instrument	Type no	S/N	Validity Calibration
Burster/MTS	Accelerometer 100 g	89010-100	1263567	02.11.2028
JDC elec	Geos n°11 Skywatch	Geos n°11	Unit11	24.07.2030

This signature approves the validity of the test report

Air Turquoise SA, has thoroughly tested the sample 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.

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⁽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_156.2020**Name impact pad: **Permair B2****Test results of Impact pad test**

	without emergency parachute	including emergency parachute
	P1	PR1
Maximum Peak of impact [g]	33.44	33.65
Impact duration at +38 [g] in [ms]	0.00	0.00
Impact duration at +20 [g] in [ms]	24.17	24.17
Uncertainty k=2[g]	1.40	1.41

