



Harness Impact Pad Report

Without seat board

Inspection certificate number: **PH_278.2019**

Manufacturer data:

Manufacturer name: **Advance Thun AG**
 Representative: **Rolf Zeltner**
 Street: **Uttigenstrasse 87**
 Post code place: **3600 Thun**
 Country: **Switzerland**

 Harness model: **Impress 4**

Sample data:

Name impact pad: **Impress 4**
 Impact pad integrated: **Yes**
 Impact pad type: **Foam**
 Serial number: **n/a**
 Weight of sample [kg]: **0.764**
 Date of test: **21.08.2020**

Atmosphere AGL:

[C°]	22.8
RH [%]	58
[hPa]	980.6

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	42.98	4.17	17.50	7.57	POSITIVE
PR	V	Test sample attached to dummy in flying position, Include emergency parachute	39.78	0.00	17.50	1.18	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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Test results of Impact pad test

	without emergency parachute		include emergency parachute	
	P1	P2	PR1	PR2
Maximum Peak of impact [g]	39.96	42.98	38.60	39.78
Impact duration at +38 [g] in [ms]	0.00	4.17	0.00	0.00
Impact duration at +20 [g] in [ms]	17.50	17.50	17.50	17.50
Uncertainty k=2[g]	2.30	2.47	2.22	2.29
Difference of test 1 and 2 [%]	100.00	107.57	100.00	103.05

