

## Miscellaneous Impact Pad Report

Inspection certificate number: **MISC\_164.2020**

### Manufacturer data:

Manufacturer name: **Advance Thun AG**  
 Representative: **Rolf Zeltner**  
 Street: **Uttigenstrasse 87**  
 Post code place: **3600 Thun**  
 Country: **Switzerland**  
 Harness model: **Not related to specific model**

### Sample data:

Name impact pad: **Foam Box**  
 Emergency parachute integrated: **No**  
 Impact pad type: **Foam**  
 Serial number: **1160638**  
 Weight of sample [kg]: **0.421**  
 Date of test: **04.11.2020**

### Atmosphere AGL:

[C°]	<b>22</b>
RH [%]	<b>53</b>
[hPa]	<b>1026</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>46.75</b>	<b>5.83</b>	<b>20.00</b>	<b>5.56</b>	<b>POSITIVE</b>
PR	Test sample attached to dummy in flying position, Include emergency parachute	<b>47.72</b>	<b>6.67</b>	<b>20.00</b>	<b>4.49</b>	<b>POSITIVE</b>

### Issue data

Place of declaration: **Villeneuve**  
 Date of issue: **10.03.2021**  
 Managing director: **Alain Zoller**

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

<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: **Foam Box**

**Test results of Impact pad test**

	without emergency parachute		include emergency parachute	
	P1	P2	PR1	PR2
Maximum Peak of impact [g]	<b>44.29</b>	<b>46.75</b>	<b>43.23</b>	<b>47.72</b>
Impact duration at +38 [g] in [ms]	<b>5.83</b>	<b>5.83</b>	<b>5.00</b>	<b>6.67</b>
Impact duration at +20 [g] in [ms]	<b>20.00</b>	<b>20.00</b>	<b>20.00</b>	<b>20.00</b>
Uncertainty k=2[g]	<b>2.55</b>	<b>2.69</b>	<b>2.49</b>	<b>2.75</b>
Difference of test 1 and 2 [%]	<b>100.00</b>	<b>105.56</b>	<b>100.00</b>	<b>110.38</b>

