

ACCELERATED PAVEMENT TESTING PROGRAM WITH THE MOBILE LOAD SIMULATOR MLS10 – TEMPERATURE ANALYSIS

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ABSTRACT

The German Federal Highway Research Institute (BAST) is using the Mobile Load Simulator MLS10 for accelerated pavement testing since 2013. During the first attempts to evaluate structural changes, it has been noticed that the temperature within the MLS10 and of the experimental infrastructure itself increased. To describe these characteristics, a test program for temperature analysis with temperature sensors and an infrared-camera was developed. During this test phase a standardized as well as a modified setup of the MLS10 was used. The results of these experiments can be used to improve further test programs in the future, especially for the adaptation of experimental parameters.