

REFLECTION OF BLAST WAVES ON THE SURFACE OF A CYLINDER

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Numerical investigations of the reflection of blast waves on the surface of cylinders brought new perceptions relative to the transition of a regular to a Mach reflection.

The Wehrtechnische Dienststelle für Sprengmittel und Sondertechnik runs large scale tests to investigate the behavior of pressure-time-histories of blast waves on a cylinder. The tests are carried out on a cylinder with a height of 3 m and a diameter of about 2.4 m. The tests are conducted in the Large Blast Simulator of the proving ground.

The paper will describe the test set up and test results in detail.