

## **BLAST PARAMETERS FROM HE-CHARGES DETONATED IN A TUNNEL ENTRANCE**

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The blast wave propagation inside a tunnel systems is investigated in case of a HE detonation at the entrance. Model test results will be reported from cylindrical charges detonations that were arranged coaxially inside the tunnel entrance, simulating a worst case situation of bomb attack. Straight tunnels at lengths of 12.5; 50 and 100 times the tunnel diameter at three different configurations have been tested: a) A very long tunnel without reflection from the end to the test section. b) Closed tunnels with reflected blast waves. c) Open end tunnels with reflected rarefaction waves. Four different charge masses have been used in order to simulate the blast from GP-bombs at real tunnels. Graphs and tables will be reported for the time of arrival, peak overpressure, blast impulse and positive duration. Data for reflected waves will be reported, too. Blast data for real tunnel cross sectional areas and charge masses can be derived from the tables.