

THE EFFECT OF NEAR, CONTACT AND EMBEDDED DETONATIONS ON MASONRY STRUCTURES

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An increasing need for fast running engineering tools for the assessment of explosion effects in an urban environment can be identified especially in the context of protection and effectiveness. Therefore, the University of the Bundeswehr in Munich was asked by the WTD52 to investigate the effect of near-, contact- and embedded detonations on masonry structures. In order to address the complex phenomena associated with this task an iterative and integrative approach was chosen, which is based on a combination of experimental investigations and numerical simulations. The paper and presentation address the experimental test program and results as well as material modeling and simulations.