

EMPIRICAL STUDIES OF AIRBLAST LOADING ON STRUCTURES

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ABSTRACT

During 2000 and 2001, the U.S. Army Engineer Research and Development Center conducted a series of small-scale experiments to examine the airblast loading of generic, rigid structures. This paper presents a newly-developed methodology for predicting airblast loads on structures which is based upon the results of the small-scale experiments. The methodology is evaluated against full-scale experiment data and compared to currently used predictive methods.