

TWO-DIMENSIONAL BLAST WAVE PROPAGATION

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When a HE charge is detonated inside a building the blast propagation is generally very complicated. In some cases, however, it is close to Two-dimensional.

This situation was studied experimentally in a model where small spherical charges (10-100g) were detonated in the space between two parallel concrete slabs.

Peak pressure, impulse per unit area and duration from the tests are given and a comparison (peak pressure) is performed with ideal two-dimensional behavior. The agreement is satisfying except, of course, close to the charge.