

SOIL LIQUEFACTION FIELD TEST - MEPPEN PROVING GROUND 1978 FREE FIELD RESPONSE

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The ground shock simulation tests at the Meppen proving ground (FRG) had the aim amongst other things of investigating the behavior of saturated fine sands when subjected to the stress wave effects of a buried charge both in the free-field and in the vicinity of an underground shelter.

The results of measurements conducted by the various collaborators in the free-field study (Federal Institute of Technology, Switzerland; Public Works Amsterdam, The Netherlands; Technological Laboratory TNO, The Netherlands) are reported and compared for a 200 kg and a 50 kg charge of TNT.

The different transducers (pore pressure total pressure, acceleration) are described and judged with respect to their performance.