

FULL-SCALE TEST OF A SWEDISH PERSONNEL SHELTER

VRETBLAD,B.

A Swedish dug-down field fortification was tested at the second phase of MISERS BLUFF, event two. The structure consisted of log-covered, prefabricated concrete arches with a sand overburden. Each end had timbered entrance parts but no other closure devices. The structure was instrumented with accelerometers and inside the shelter pressure gages were installed - some of them on simple dummies. Though the design is aimed for protection against conventional weapons the structure well resisted the blast and ground-shock effects from the detonating charges on the 200 kPa level . For full protection of personnel within the structure under long-duration blast load, closure devices should be added. Some selected recordings are presented and discussed in some detail and some comments are made on the structural behavior.