

CIVIL DEFENSE STRUCTURE EXPOSED TO BLAST WITH LONG DURATION

VRETBLAD,B.

For the MINOR SCALE event a civil defense shelter comprising 1 room designed according to the Norwegian civil defense regulations and 1 room according to the corresponding Swedish regulations has been designed.

As a part of the preparations the pressure distribution from a blast wave over a 1/20 model of the structure has been studied in the FortF shock tube III in Marsta. However, the pressure distribution at the full scale test will differ from the model results as e.g. the forming of vortices does not scale accordingly.

In the paper the pressure on the shelter for 3 different scales will be given, compared and discussed.

A short presentation of the structural damages of the full scale shelter will also be made.