

BLAST STUDY ON A HELICOPTER WINDOW

U. Schwarz

*Wehrtechnische Dienststelle für Schutz- und Sondertechnik WTD 52
Oberjettenberg, 83458 Schneizlreuth, Germany*

ABSTRACT

This paper addresses the experimentally achieved results of the air blast response of a plexiglass helicopter window.

It describes the approach for a simplified numerical worst-case analysis performed by the manufacturer and compares the results with blast tests on this window in the Large Blast Simulator of WTD 52.

This presentation will put emphasis on the effects of the dynamic behavior by illustrations of measured deformations and high-speed videos, which demonstrate the necessity of blast tests in addition to numerical simulations.