

Abstract Submitted  
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**Shock Characterisation of a Carbon-Fibre Composite** MICHELLE WILLOWS, QinetiQ, Farnborough, UK, WILLIAM PROUD, Cavendish Laboratory, University of Cambridge, PHILIP CHURCH, QinetiQ, Fort Halstead, UK — Composites provide a low-density alternative to many metals and alloys. They are increasingly used as structural components. In this paper carbon fibre re-inforced composite is characterised using a series of plate impact experiments using VISAR and manganin gauges as diagnostics. The results used to populate a hydrocode model and a ballistic impact scenario is used as a validation experiment.

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