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**Composites and reinforcements  
fibres — Determination of the fracture  
energy of bonded plates of carbon  
fibre reinforced plastics (CFRPs) and  
metal using double cantilever beam  
specimens**

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## Foreword

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This document was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 13, *Composites and reinforcement fibres*.

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## Introduction

The potential benefits to the users of CFRP/metal assemblies of implementing the adhesive fracture energy of DCB specimen based on this document are:

- a) expanding CFRP applications to the fields where it could be used in combination with metallic components;
- b) the detection or the prevention of physical properties loss — such as ion migration and time-related degradation in sealant film, injected calking layer and glass fibre reinforced plastics (GFRPs) layer;
- c) demonstrating the conformity to specified conditions for type certification requirements in the engineering such as aircraft developments;
- d) evaluating the procedures for maintenance, repair and overhaul (MRO) in the engineering operations such as CFRP in aerospace, or in constructions such as steel bridges and industrial applications (e.g. pipework repair, etc.)

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