

A NEW SMALL SCALE FIRE RESISTANCE TEST METHOD FOR COMPOSITE MATERIALS

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SUMMARY

A new method has been developed for fire resistance testing of composite materials. Using this approach, composite panels have been subjected to combined fire and mechanical load in small scale tests. The results have shown a very similar trend in the degradation of panel stiffness regardless of small changes in panel thickness and volume fraction or ply orientation.

Keywords: Fire, testing, resistance, laminate, epoxy

INTRODUCTION

A major factor preventing further widespread use of polymeric single skin and sandwich materials is their behaviour in fire. The fire aboard the Norwegian composite mine hunter "Orkla" in 2002 [1] did much to harbour the belief that composite materials are not safe to be used in structures where there is a risk of fire. One of the root causes of the "Orkla" fire was an insufficient design standard. Whilst these regulations were not necessary for military craft it was stated in the accident report [1] that, had they been followed the severity of the incident would have been greatly reduced. The regulations cover many aspects of vessel design and operation; here the authors are concerned with the fire resistance of typical deck and bulkhead materials and the relevant testing that is required to be undertaken.

For vessels carrying more than 12 passengers or greater than 500 gross tons the International Maritime Organization (IMO) specify particular test standards which all materials onboard have to comply with [2]. In the fire resistance tests a section of a bulkhead or deck from a vessel 2.5m × 2.5m is subjected to a fire from one side. The temperature next to the panel is kept in line with the cellulosic temperature-time curve [2]. Static loads are also applied which match the loads that the structure would be subjected to in service. To pass the tests the panels must, over a specified time period, prevent the temperature on the cold surface rising above a threshold level in addition to supporting the load within a specified deflection. Due to the size of the specimens required, the tests are expensive, time consuming and are not necessarily an effective method for trialing different materials.

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