Fire catalogue
Introduction

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As fire engineers, it is our responsibility to ensure the safety of people and property in the built environment. This is achieved through the selection and use of appropriate fire protection products, including suppression systems, detectors, and alarms. These products are designed to provide early detection, suppression, and control of fires to prevent or limit the extent and severity of fire damage. The role of codes, standards, and approvals is critical to ensuring the safety and integrity of these products in practice.

External fire spread

During the revision of BRE Report BR 187, the role of codes, standards, and approvals in delivering fire safety became apparent that the methodology and some of the assumptions, which were developed 50 or more years ago, needed to be validated and justified by the fire engineer for the part of an overall engineering design solution. The selection of materials that were not considered by the legislators, with a low fire load (being unduly onerous on the designer), provide excessive separation distances for very large enclosures insulated buildings (increasing the likelihood of fire spread) but provide separation distances that are too small for very highly insulated buildings. This Information Paper therefore reviews existing fire suppression products and examines potential improvements in the data and ultimately the quality of products. It also looks at the key differences between the types of requirements for the risk. Traditionally, there are two types of safety requirements relevant to fire protection: life safety requirements and property protection.

The role of codes, standards and approvals

In addition, this Information Paper discusses the impact on the safety of both people and property in fire and the role of codes, standards, and approvals in delivering fire safety. Product manufacturers have always had to demonstrate compliance with a wide range of codes and standards to trade. As new markets open up there is greater potential for confusion between the performance of products when tested to standard methods and the evidence needed to meet different local requirements. This Information Paper identifies the key processes used to test and approve fire suppression products.

Supplementary guidance to BR 187

This Information Paper reviews existing fire compartment temperature calculation methods from BR 187 and presents methodologies for assessing the sensitivity of the parametric approach to variations in fire load, window size and insulation of compartment boundaries.

Fire engineering

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AP 313 NEW

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External fire spread

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This Information Paper reviews existing fire compartment temperature calculation methods from BR 187 and presents methodologies for assessing the sensitivity of the parametric approach to variations in fire load, window size and insulation of compartment boundaries.

IP 3/16 NEW

The role of codes, standards and approvals

Product manufacturers have always had to demonstrate compliance with a wide range of codes and standards to trade. As new markets open up there is greater potential for confusion between the performance of products when tested to standard methods and the evidence needed to meet different local requirements. This Information Paper identifies the key processes used to test and approve fire suppression products.

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