

## BR 135

The first edition of BR 135 published in 1988, was developed in response to the increasing use of thermal insulation in external wall constructions of multi-storey buildings. Its primary purpose is to analyse the key stages associated with fire spread on the outside of a building envelope.

These are classified as:

- ▶ Initiation of the fire
- ▶ Fire breakout
- ▶ Interaction with the external envelope
- ▶ Fire re-entry
- ▶ Fire service intervention

## Performance Criteria

Annex B of BR 135 establishes the performance criteria and classification for testing to BS 8414-2: 2005.

### Performance criteria and classification method:

The performance criteria and classification method are based on the latest edition of the BS 8414-2:2005 test method. In order for a classification to be undertaken the system must have been tested to the full test-duration requirements of BS 8414-2 without any early termination of the full fire-load exposure period. As explained in Annex A, the primary concerns when setting the performance criteria for these systems are fire spread away from the initial fire source, and the rate of fire spread. If fire spread away from the initial fire source occurs, the rate of progress of fire spread or tendency for collapse should not unduly hinder intervention by the emergency services.

The performance of the system under investigation is evaluated against three criteria:

- ▶ External fire spread
- ▶ Internal fire spread
- ▶ Mechanical performance

The classification applies only to the system as tested and detailed in the classification report. The classification report can only cover the details of the system as tested. It cannot state what is not covered. When specifying or checking a system it is important to check that the classification documents cover the end-use application.

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### Rapid Fire Spread

Cladding system contributes to flame spread resulting in risk of multiple simultaneous secondary fires

### Restricted Fire Spread

Cladding system does not contribute to flame spread. Risk of secondary fires limited

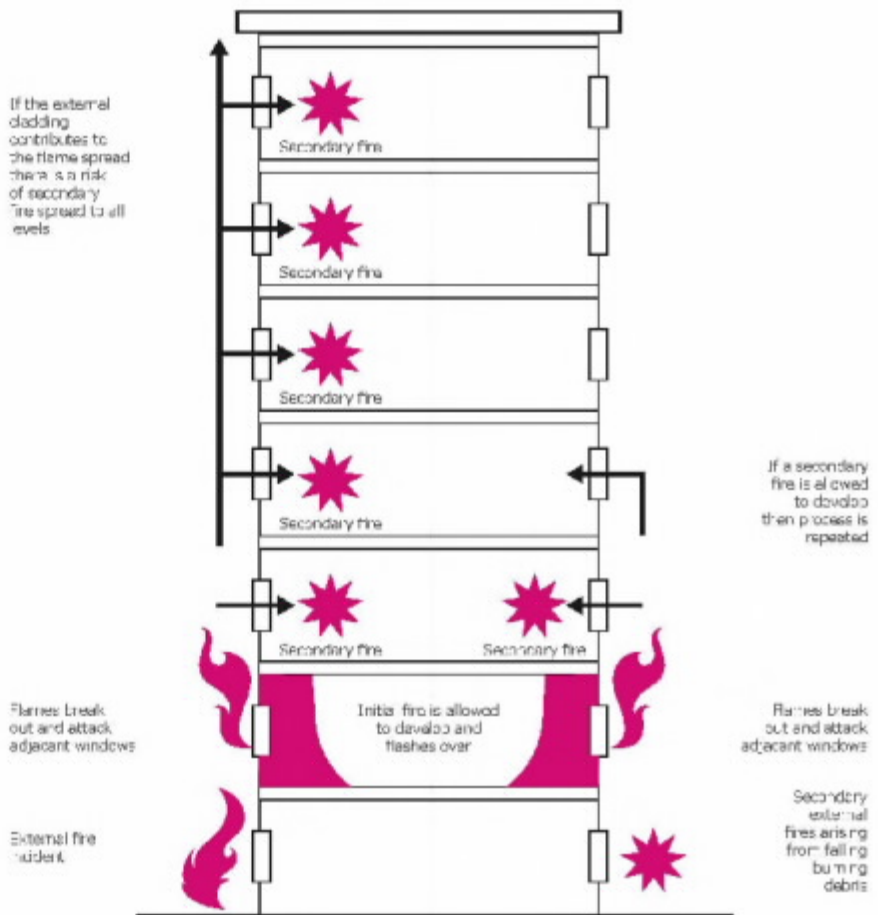


Figure 3 – BR 135

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