Above 18m
Approved Document B (Fire Safety)

Section 12 (External Wall Construction)

Insulation Materials & Products

Section 12.7

“In a building with a storey 18m or more above ground level, any insulation product, filler material etc. used in the external wall construction should be of limited combustibility”
Test Methodology

Section 12.5

"External walls should either meet the guidance given in paragraphs 12.6 to 12.9 or meet the performance criteria given in the BRE Report *Fire performance of external thermal insulation for walls of multi storey buildings (BR 135)* for cladding systems using full scale test data from BS 8414-1: 2002 or BS 8414-2:2005"
Developed in 1988

In Response To Increasing Use Of Thermal Insulation In Refurb Programmes On Multi-Storey Buildings

Garnock Court, Irvine Housing Block Fatal Fire, 1999

- Fire Started On 5th Floor
- Within Ten Minutes Was At 12th Floor
BS 8414-2:2005

- Cladding Systems Fixed To & Supported By A Structural Steel Frame (New Build)
Kingspan K15

- Launched in 2006 for Rainscreen Applications
- Supported by testing to BS 8414-1:2002 onto masonry substrate
- LABC Approval
- Created a strong perception on fire-safe Kooltherm board
- System used 6mm Non-Combustible cladding as façade

celotex.co.uk
Testing

- Cost - £25k

- System - 12mm Eternit Cladding
  - Lamatherm Fire Barriers
  - 100mm FR5000
  - Sheathing Board
  - Metsec Frame

- Result – Passed (Completed 60 Minutes Testing)
Result

- Typical Ventilated Rainscreen System
- Large Amount (100mm) Of Combustible Insulation In The Cavity
- Passed Comfortably
- First PIR Board To Pass BS 8414 Series
- Growing Scepticism Over Rigid Board Testing
Launch Plan

- Launch On Aug 1\textsuperscript{st}, Celotex RS5000 Suitable For Use In Rainscreen Cladding Systems Above 18m In Height
- Passed BS 8414:2 2005 & Meets The Criteria Set Out In BR 135
- Test Details As Follows:
  - 12mm Eternit Natura Cladding Fixed To Vertical Rails,
  - 100mm RS5000 Fixed To Non-Combustible Substrate etc.