

"With the exception of language, it would not be an exaggeration to characterise global fire safety standards as the most urgent outstanding issue in the pursuit of the public interest in global safety and performance comparability."

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Chair – CTBUH Fire & Facades Group

Chair – International Fire Safety Standards Coalition

Grenfell Tower update





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Independent Expert Advisory Panel IRG – Industry Response Group **Public Inquiry** Dame Judith Hackitt Building Regulations and Life Safety Review Criminal investigation 7 large scale BS8414 tests Guidance issued to building owners by MHCLG continuing **Building Safety Programme Building Solutions Programme**



Grenfell Tower update





Cladding system tests	Result
Test 1 cladding system formed using ACM panels with an unmodified polyethylene core (PE) and a rigid polyethylene core (PE) and a rigid	Failed
Test 2 cladding system formed using ACM panels with unmodified polyethylene core (PE) (Cat 3 in screening tests) and stone wool insulation	Failed
Test 3 cladding system formed using ACM panels with a fire-retardant polyethylene core (FR) and a PIR foam insulation	Failed
Test 7 cladding system formed using ACM panels with fire-retardant polyethylene filler (Cat 2 in screening tests) with phenolic foam insulation	Failed
Test 4 cladding system formed using ACM panels with a fire-retardant (FR) core and stone wool insulation	Passed
Test 5 cladding system formed using ACM panels with a limited combustibility filler (A2) with PIR foam insulation	Passed
Test 6 cladding system formed using ACM panels with a limited combustibility filler (Cat 1 in screening tests) and mineral (or stone) wool insulation	Passed

Electrical issues



Residents evacuated in Walpole Road and Hamilton Road, Bournemouth on Friday after power surge sparks five fires

http://www.bournemouthecho.co.uk/news/15610931.Hundreds_of_people

Il_without_electricity_after_power_surge_causes_house

Sprinklers



In Wales, sprinklers are now mandatory for ALL residential new buildings – but not in England, Scotland or Northern Ireland.

Recommended in AD B above 30m but NOT mandatory

Benefits to business of standards



From investors to the public, they offer significant benefits to different stakeholders:

Professional advisors

enhance performance and reputation

Investors

comparability of sound investments on a like for like basis

Multinationals

better understanding of property portfolio

Developers

ability to attract new clients from all markets/regions

Governments

political, market transparency and investment potential

Public

confidence in governments and buildings

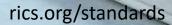


IFSS - Valuation of real estate



Valuation

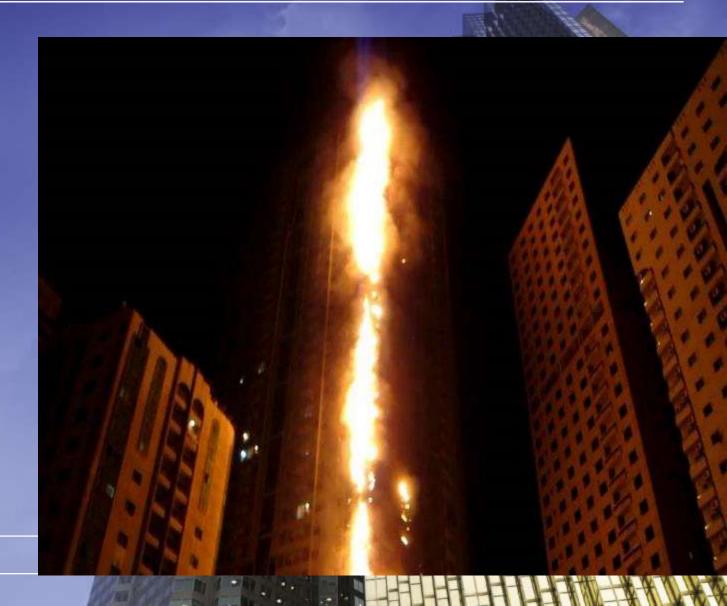
- Based on open market value
- Use best comparables available
- Public sentiment is against dangerous buildings
- Global investors very aware of this as a global issue
- Local investors very aware
- Banks very aware of inconsistencies
- So no investment and inability to raise finance



IFSS - International Fire Safety Standards







Why is there a need for IFSS?



Property of all types is built and managed differently around the world, which leads to:

- difficulty in providing consistent and transparent information from one market to the next
- inconsistency further undermining existing international standards such as IFRS and IVS
- a degree of uncertainty in property markets
- uncertainty for international financial investors
- uncertainty by the public leading to political instability

Fire Safety in Buildings



Fire safety in buildings has two arenas:

- Design and construction providing the fire safety infrastructure
- Building in use using and maintaining the fire safety infrastructure



Design and Construction – Providing the fire safety infrastructure



Fire safety design needs to address:

- Holistically the whole building, not just cladding, on a fire engineered approach
- Fire prevention and arson resistance
- Fire detection and alarm
- Means of escape/evacuation
- Structural fire resilience
- Fire growth control incl fire suppression
- Fire fighting facilities
- Fire engineers input
- Supervision of construction



Building In Use – Using and maintaining the fire safety infrastructure



- Fire risk assessment
- Building management
 - Regular inspection, reporting & testing
 - Maintenance
- Training
- Existing buildings incremental improvements





IFSS will offer a global solution to:

- address current inconsistencies in the way property is designed, built and managed for fire safety
- Ensure different types of property including offices, residential, retail and industrial are safe for users
- Ensure confidence in property investment

IFSS will be implemented by all coalition organisations, through their members.

IFSS – Consistency



Consistency

- Consistent standards enable governments & clients to accurately quantify risks and other sustainability measures.
- Enable governments to reassure the public and investors



IFSS – Inward investment



Transparency

 Improved confidence in national market for foreign direct investment at all stages of the property lifecycle.





Comparability

 Removes need for multiple differing standards within countries (such as the UK), and allows for better foreign direct investment assessment.





Future proof

 Utilising international best practice early as the world moves to this set of standards, as it has done with IFRS and other international standards.



IFSS - Challenges



Why not ISO?

- Takes too long and costs too much
- ISO set up for products not professional behaviour
- IP owned by ISO and cost (of downloading) is a barrier
- Any one country can veto a standard
- IFSS Coalition members develop the standards and ensure it's adoption





- These issues need a team approach
- Fire engineers are key to the solutions
- Opportunity to build a global fire engineering profession is huge
- Professional bodies must collaborate





Professional standards are

Good for business Good for govts Good for the public

RIBA





















of Building Limited

 $C \cdot A \cdot S \cdot L \cdot E$





Get involved –





