

Product Testing, Certification, Compliance and Declarations of Performance

Will Perkins

About the SCA



The Smoke Control Association (SCA) is an independent body involved in various aspects of smoke control; including design, CFD, manufacturing, install, commissioning, service and maintenance.

Past projects include the publication of guides related to the design of smoke control systems and projects.



Building Safety Act 2022

CHAPTER 30

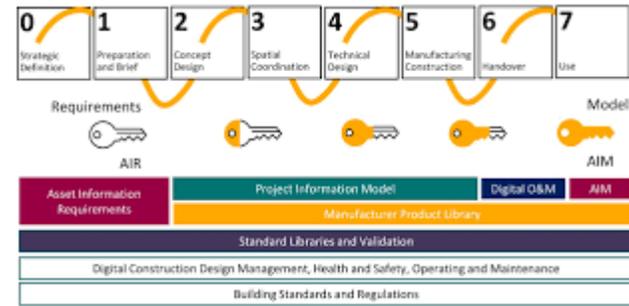
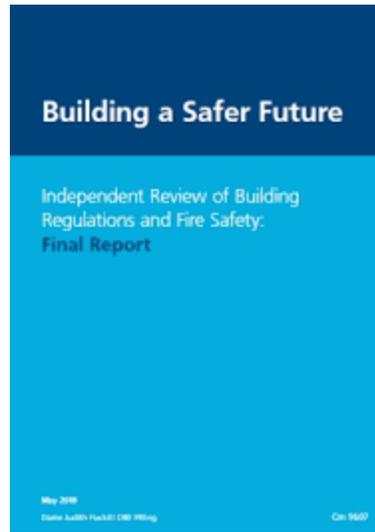
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News story

New fire safety regulations come into force in England

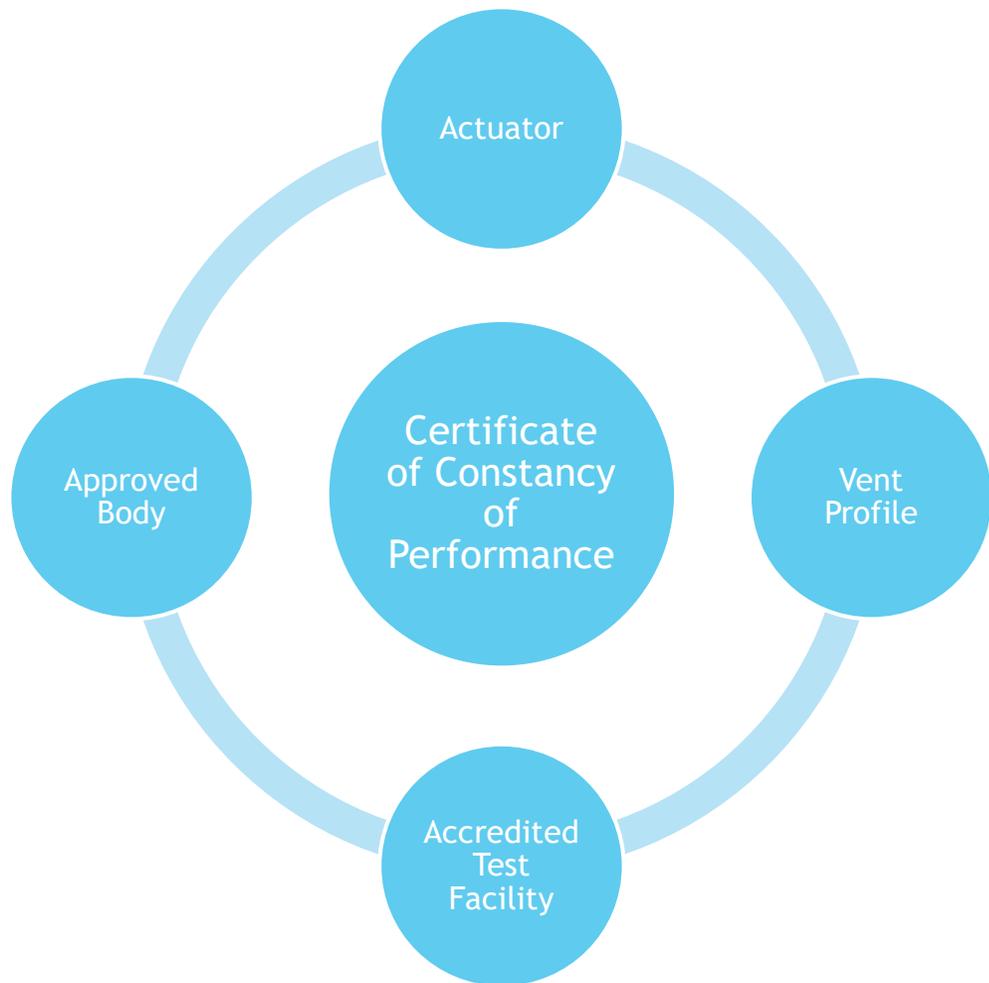
The Fire Safety (England) Regulations 2022, which implement the majority of the Grenfell Tower Inquiry recommendations, come into force today (23 January 2023).



**C E UK UK
CA NI**

DoP **Declaration
of Performance**





Annex A (normative)

General testing procedures

A.1 Test sequence

For type approval testing carry out the tests in the following sequence:

- annex B, determination of the aerodynamic free area;
- annex C, reliability test;
- annex D, opening test under load;
- annex E, low ambient temperature test;
- annex F, wind load test;
- annex G, heat exposure test.

Dear Sir/Madam,

**Construction Product Regulations 2013
Request for Information under EU Regulation No 305/2011**

RE: Smoke Control Damper

The Office for Product Safety and Standards (OPSS) enforces construction product regulations on behalf of Secretary of State and acts as the national authority for construction products.

The above-mentioned product (the Product) has been selected for inclusion in OPSS' smoke control damper regulatory market surveillance activity.

Open source data indicates you are an economic operator involved in supply of the Product

In accordance with the obligations placed upon:

- Manufacturers by Article 11.8 of EU Regulation No 305/2011
- Importers by Article 13.9 of EU Regulation No 305/2011
- Distributors by Article 14.5 of EU Regulation No 305/2011

OPSS requires you to provide the information and documentation necessary to demonstrate the conformity of the Product with the declaration of performance and compliance with other applicable requirements in this regulation.

Please provide copies of the relevant:

1. Declaration of performance
2. Certificate of constancy of performance
3. Test reports
4. Installation and maintenance information supplied with the Product.

Stages of Construction and Operation

RIBA/CIC STAGE	STAGE 0	STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 5	STAGE 6	STAGE 7
STANDARD PHASE	 BRIEFING			 DESIGN		 CONSTRUCTION	 DEFECTS & AFTERCARE	 EVALUATION
	Strategic Definition	Preparation and Briefing	Concept Design	Spatial Coordination	Technical Design	Manufacturing and Construction	Handover	Use
BUILDING SAFETY BILL			Fire Safety Strategy	Fire Safety Coordination	Fire Safety Specification	Inspection Reports, Digital Record		
GATEWAYS			GATEWAY 1	GATEWAY 2		GATEWAY 3		
BS 8644 Part 1 INFORMATION EXCHANGE POINTS	IEP A			IEP B		IEP C	IEP D	IEP E

ONLINE VERSION

HM Government

The Building Regulations 2010

Fire safety

B

APPROVED DOCUMENT

Volume 1: Dwellings

Requirement B1: Means of warning and escape
 Requirement B2: Internal fire spread (linings)
 Requirement B3: Internal fire spread (structure)
 Requirement B4: External fire spread
 Requirement B5: Access and facilities for the fire service
 Regulations: 6(3), 7(2) and 38

2019 edition incorporating 2020 amendments –
 for use in England

ONLINE VERSION

The principles, concepts and approach relating to fire safety that have been applied to the development

6. Building Schedule

Site information				Building information			Resident safety information		
a) Block no. as per site layout plan above	b) Block height (m) Number of storeys excluding basements Number of storeys including basements	c) Proposed use (one per line)	d) Location of use within block by floor level	e) Standards relating to fire safety / approach applied	f) Balconies	g) External wall systems	h) Approach	i) Automatic suppression	j) Accessible housing provided
Choose an item	Choose an item	Choose an item	Choose an item	<p>Choose an item.</p> <p>Approved document B vol 1 BS9991</p> <p>Approved document B vol 2 BS9999</p> <p>Fire engineered approach BB100 HTM0502 BS7974</p>			Choose an item	Choose an item	Choose an item

3.49 There should therefore be some means of ventilating the common corridors/lobbies to control smoke and so protect the common stairs.

3.51 Smoke vents should comply with one of the following.

a. They should be located on an external wall with minimum free area of

$$1.5\text{m}^2 = 0.9\text{m}^2 A_a$$

Free area of smoke ventilators

The free area of a smoke ventilator should be measured by the declared aerodynamic free area in accordance to **BS EN 12101-2**

9 Essential Characteristics

Declared Performance		EN12101-2:2003
Nominal Activation Conditions	24v DC	4.1/4.2
Response Delay	<60s	7.1.2
Operational Reliability	Re 1000 WL 1500	7.1/7.4 (Annex C/F)
Effectiveness of Smoke / hot gas extraction	0.9m² Aa	6 (Annex B)
Aerodynamic Free Area	0.9m² Aa	6 (Annex B)
Performance Criteria under Fire Conditions	B300	7.5 (Annex G)
Fire Resistance - Mechanical stability	B300	7.5 (Annex G)
Ability to open under Environmental Conditions	NPD / T (00)	7.2 / 7.3 (Annex D/E)
Reaction to Fire	A1	7.5.2.1

BS 8644-1:2022



**Digital management of fire safety
information**

Part 1: Design, construction, handover, asset management and
emergency response – Code of practice

bsi.

Digital Golden Thread

Thank you



Any questions?

www.smokecontrol.org.uk