GERDA®
SECURITY PRODUCTS LIMITED
Leading the future of fire safety

GSP®
Part of The GSP GROUP

HRBs – Where are we?

Fire Doorsets in HRBs- Legislation, Gateway 2 Compliance & Considerations.

OUR STORY

Gerda Security Products, part of the GSP Group, is a leading UK manufacturer of high specification, multi-performance fire doorsets in the social housing sector for almost 30 years and Specialist in Emergency Access Systems for 20 years. With nearly 200 employees and manufacturing sites; warehouse & distribution centre and training centre in East Anglia & the South East.

We are committed to making the built environment a safer place to live, by designing and extensively primary testing multi-performance products.

Our product design carefully considers building regulation requirements; performance criteria and innovation to solve challenges in the built environment.

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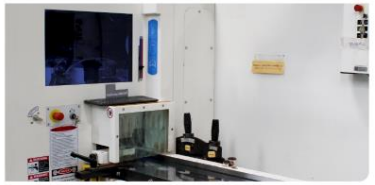
UK MANUFACTURING



bsi. ISO 9001:2015 Quality Management

bsi ISO 14001 Environmental Management CERTIFIED

bsi ISO 45001 Occupational Health and Safety Management CERTIFIED

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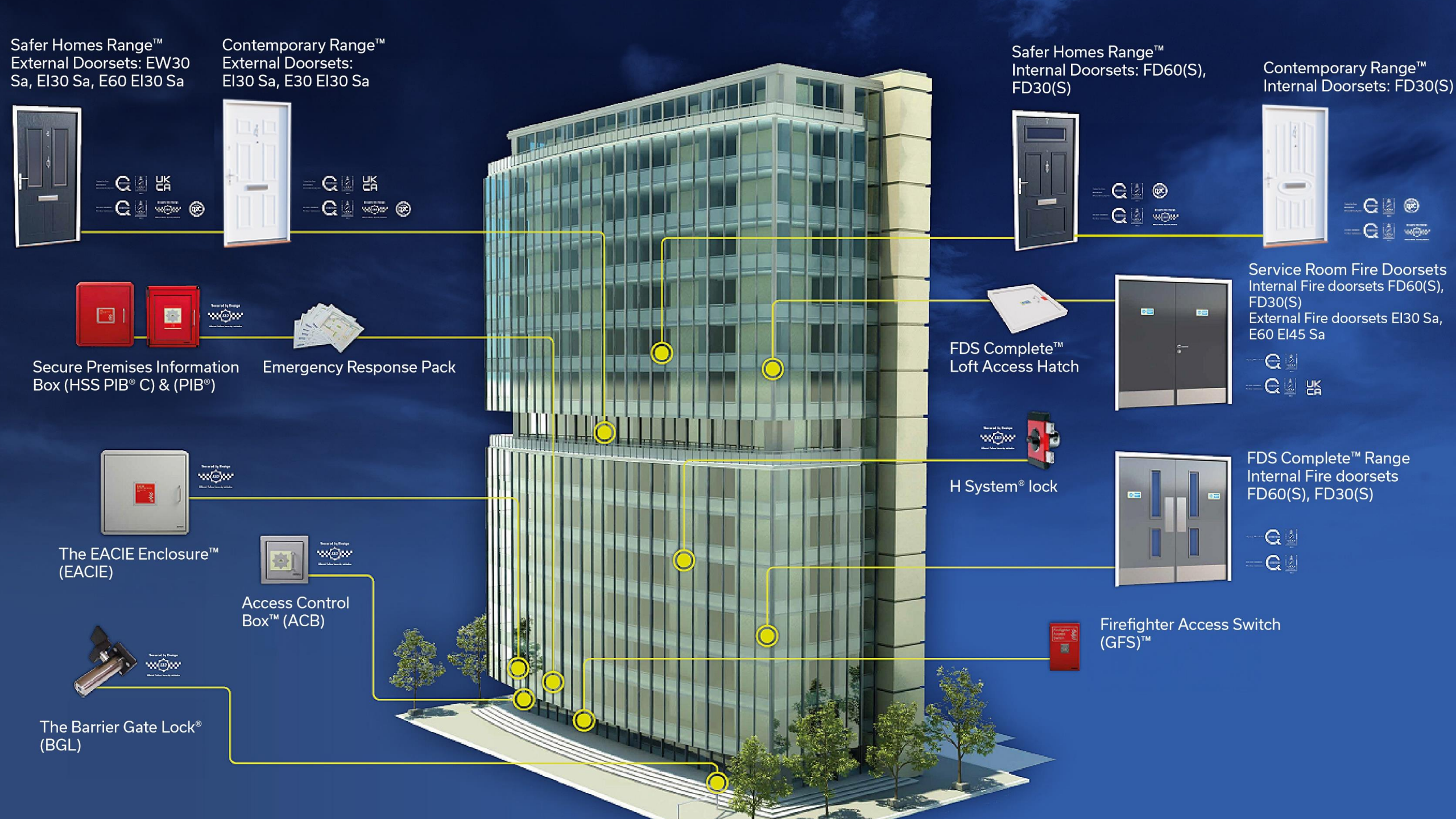
Safer Homes Range™
External Doorsets: EW30 Sa, EI30 Sa, E60 EI30 Sa
Contemporary Range™
External Doorsets:
EI30 Sa, E30 EI30 Sa
Safer Homes Range™
Internal Doorsets: FD60(S), FD30(S)
Contemporary Range™
Internal Doorsets: FD30(S)
Secure Premises Information Box (HSS PIB® C) & (PIB®)
Emergency Response Pack
FDS Complete™
Loft Access Hatch
Service Room Fire Doorsets
Internal Fire doorsets FD60(S), FD30(S)
External Fire doorsets EI30 Sa, E60 EI45 Sa
H System® lock
The EACIE Enclosure™ (EACIE)
Access Control Box™ (ACB)
FDS Complete™ Range
Internal Fire doorsets
FD60(S), FD30(S)
Firefighter Access Switch (GFS)™
The Barrier Gate Lock® (BGL)

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Fire Doorsets in HRBs – Legislation, Gateway 2 Compliance & Considerations.

RECENT FIRE SAFETY LEGISLATION

Fire Doorsets

Fire Safety Act 2021

Amended the RR(FS)O to include Flat Entrance Doorsets & External Envelope into risk assessments

Construction Products Regulation 305/2011

External doorsets with fire resistance, to meet designated standard BS EN 14351-1:2006+A2:2016 / BS EN 16034:2014 (UKCA marking)

Fire Safety (England) 2022 Regulations (10)

Introduced checks on fire doors
3 monthly on communal
12 monthly on flat entrance doors in buildings above 11m.
Advise residents of importance of fire doors & closers & report faults.

Building Safety Act

OPSS – National Regulator of Construction Products
Building Safety Regulator
Gateway 2 Compliance

BUILDING SAFETY ACT

Fire Doorsets

Office of Product Safety & Standards (OPSS)

Enforces:

1) The Construction Products Regulation affecting the Designated Standard for External Fire Doorsets
2) The General Product Safety Regulation affecting other fire doorset types.

Building Safety Regulator (BSR)

Oversees:
all buildings and is the regulator for HRBs, with the role of Building Control Body

Gateway 2

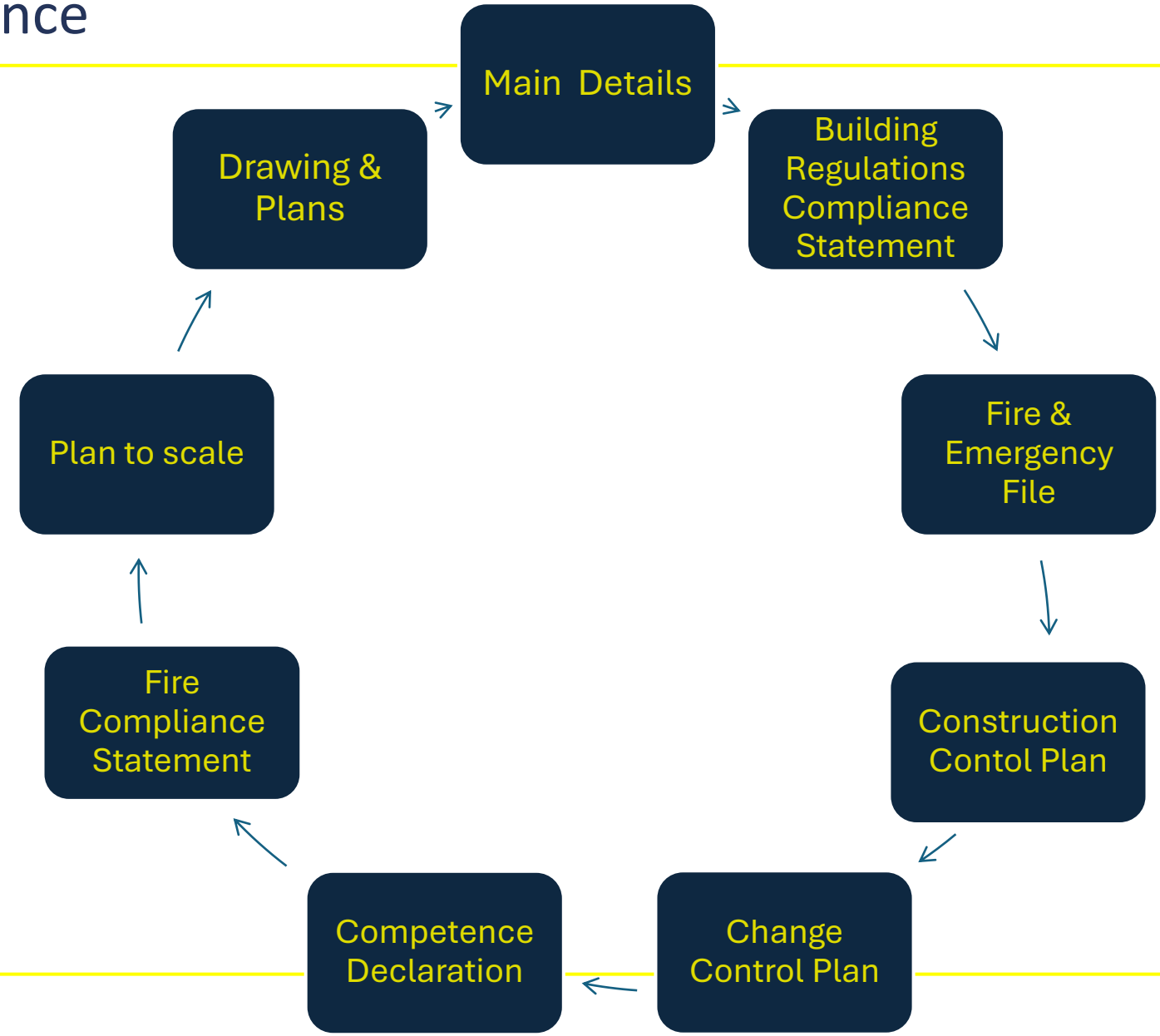
Is:
the stop/go point for the BSR to decide if all is compliant with building regulations, with suitable arrangements for works. Work only proceeds when Building Control Approval is given.

BUILDING SAFETY ACT

Gateway 2 Compliance

GATEWAY 2 IS THE DECISION POINT FOR BUILDING CONTROL APPROVAL by the BSR.

CONSTRUCTION PRODUCT CHOICE IS KEY.



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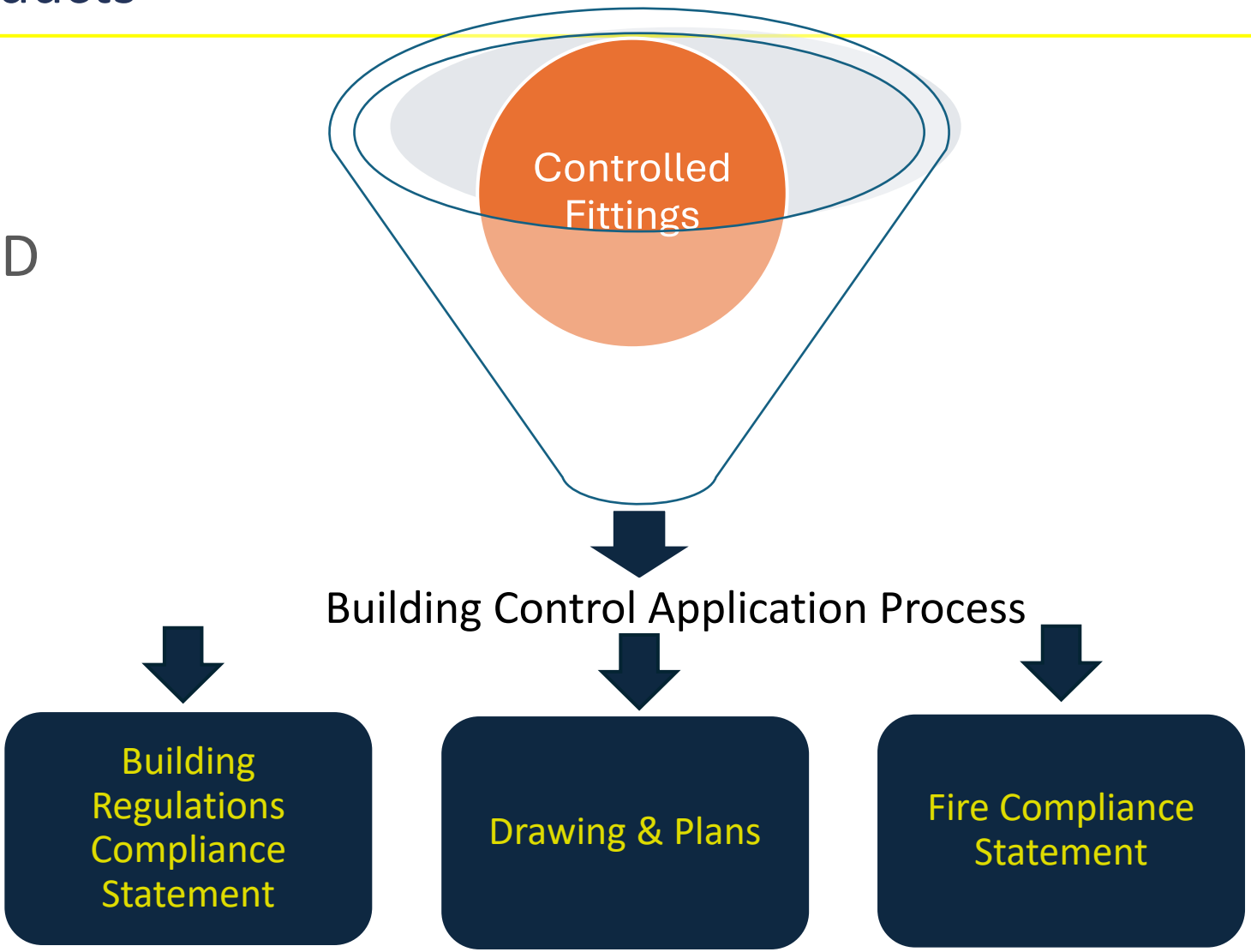
BUILDING SAFETY ACT - GATEWAY 2 COMPLIANCE

Construction Products

FIRE DOORSETS ARE CONTROLLED FITTINGS (Approved Document 7)



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CONSTRUCTION PRODUCTS / CONTROLLED FITTINGS

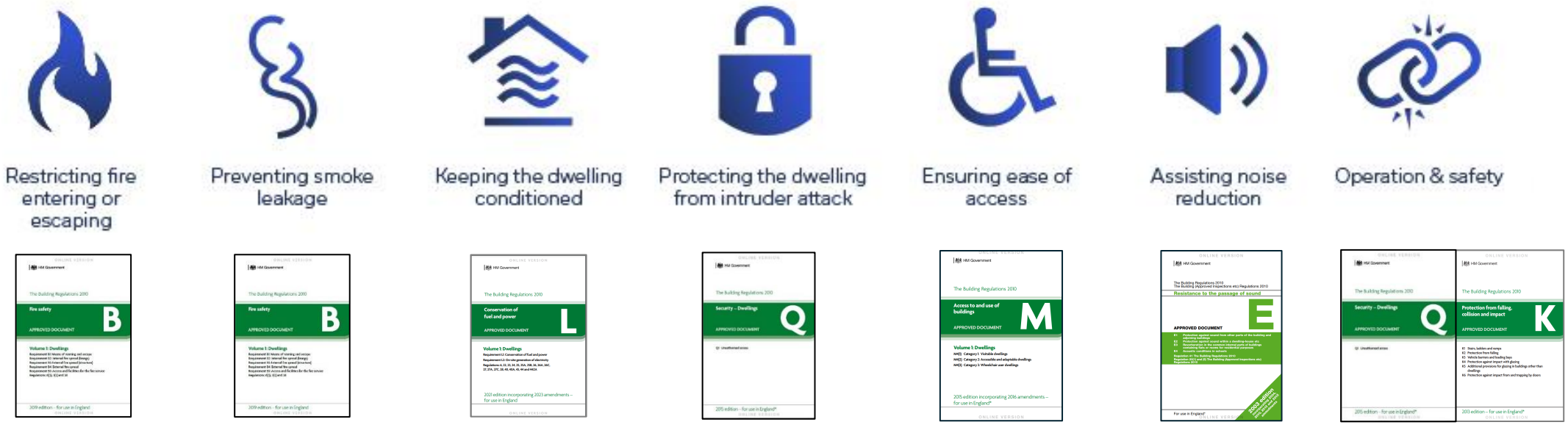
Fire Doorsets

NOT JUST A ‘FIRE DOOR’

PERFORMANCE BASED ON FUNCTION AND LOCATION

THE FIRE DOORSET FUNCTION & LOCATION

Example – Flat Entrance Doorset



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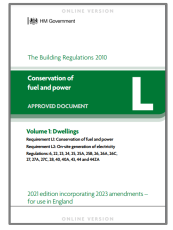
THE FIRE DOORSET FUNCTION & LOCATION

Example – External Flat Entrance Doorset

Restricting fire entering or escaping

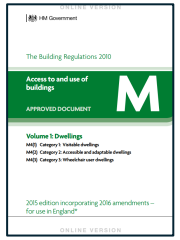
Preventing smoke leakage

Keeping the dwelling conditioned

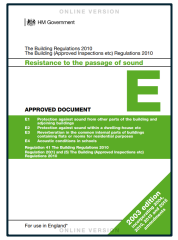


Protecting the dwelling from intruder attack

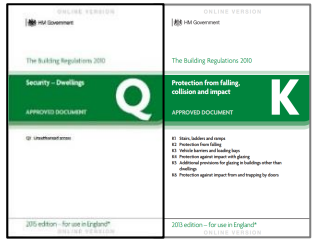
Ensuring ease of access



Assisting noise reduction



Operation & safety



Weather resistance

Construction Products Regulation
Wind resistance watertightness & air permeability

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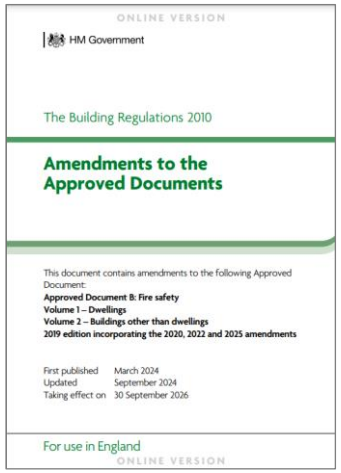
BUILDING REGULATION COMPLIANCE

Fire Safety



Fire Doorsets

- Classified in accordance with EN 1634-1 fire resistance / EN 1634-3 smoke leakage according to BS EN 13501-2
- Regulation 38 introduction
- Means of Escape
- Phasing out of national classes (BS 476)
- Supplied from a Single Source for External Pedestrian Doorsets with Fire Resistance

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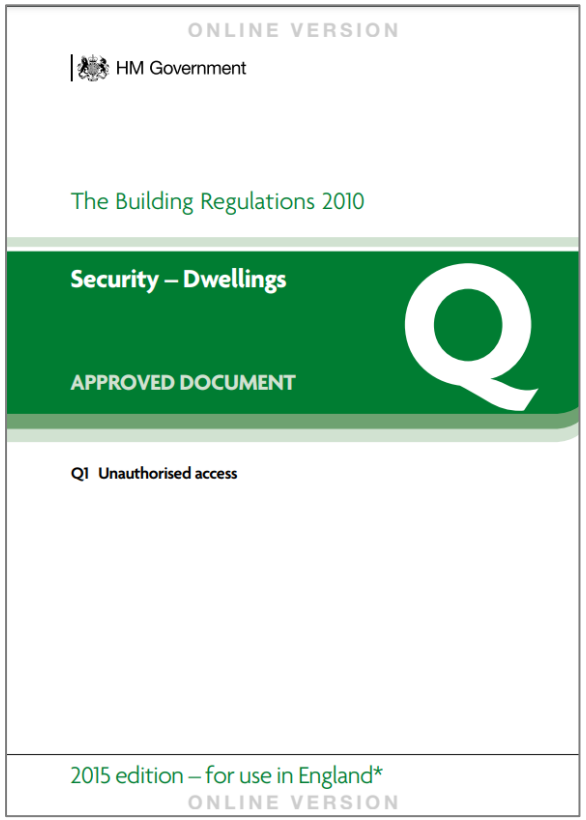
BUILDING REGULATION COMPLIANCE

Security

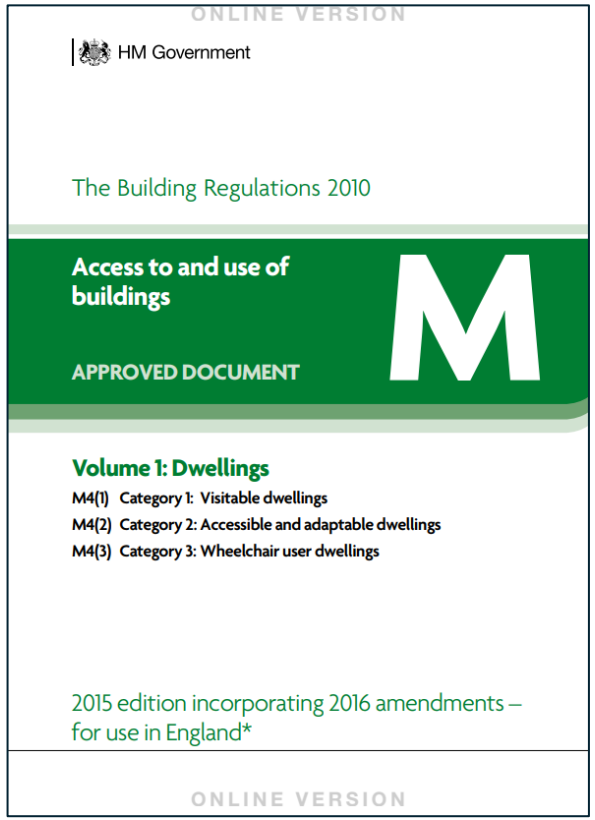


Fire Doorsets

- Recognised Industry Test Standard: PAS24:2012
- Specifically for entrance doorsets, this regulation relates to the security of the dwelling
- Part Q stipulates requirements for letterplates (achievable through TS008 letterplates) And TS002 requirements for door viewers (unless there is clear glazing in the doorset) And door limiter/chain requirements (achievable through TS003)

BUILDING REGULATION COMPLIANCE

Access to and use of buildings



Fire Doorsets

- Doorsets tailored to size (mm) based on survey of opening
- Survey App to enable detail to be captured & processed within test evidence remit
- Wide range of primary tested door closer options to suit resident needs
- Range of primary tested solutions for low thresholds
- Options to colour contrast doors and frames
- Primary tested options for two door viewers
- Flat Entrance Doorsets with assisted opening

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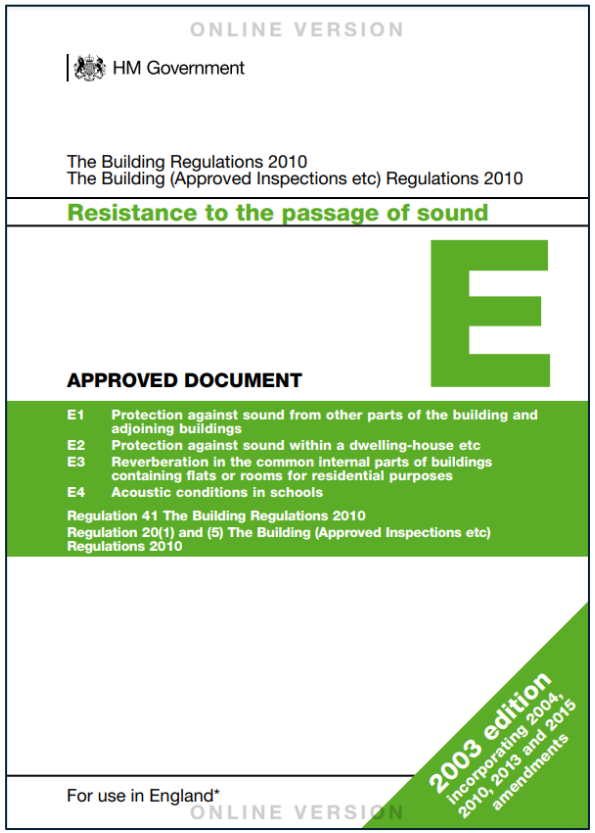
BUILDING REGULATION COMPLIANCE

Resistance to the passage of sound



Fire Doorsets

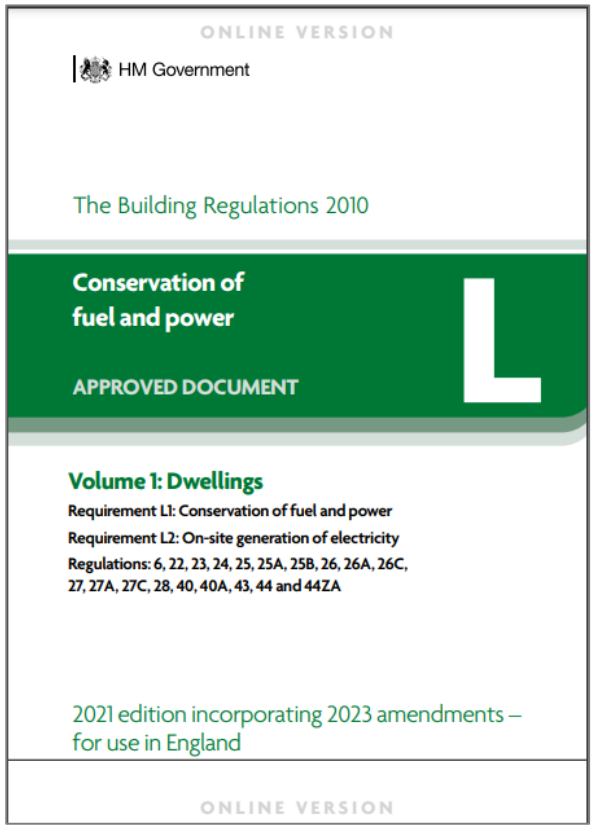
- Recognised Industry Test Standard for fire doorsets
  EN ISO 10140-2 Laboratory Measurement Method for the transmission of airborne sound

- 4.20 Ensure that any door has good perimeter sealing (including the threshold where practical) and a minimum mass per unit area of 25kg/m²

- or a minimum sound reduction index of 29dB Rw (measured according to BS EN ISO 140-3:1995 and rated according to BS EN ISO 717-1:1997)

BUILDING REGULATION COMPLIANCE

Conservation of Fuel and Power

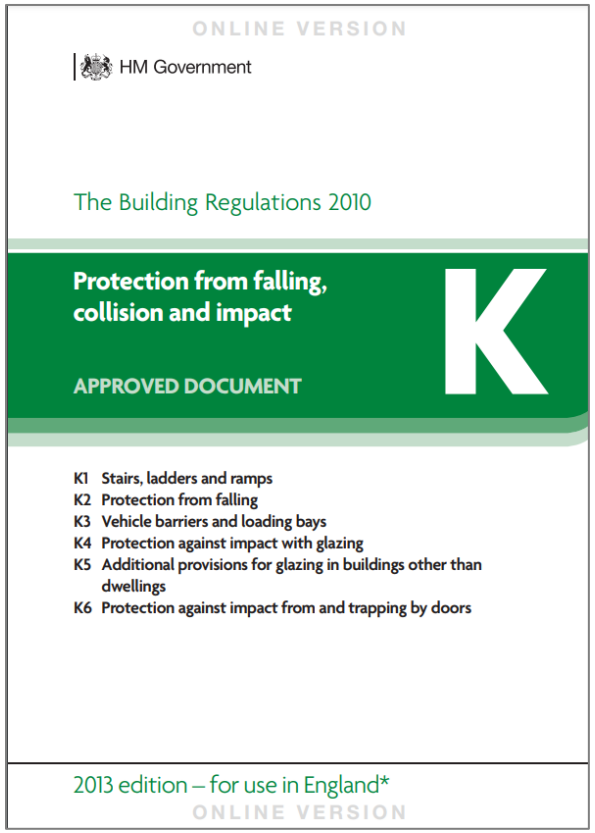


Fire Doorsets

- Recognised Industry Test Standard for fire doorsets is EN ISO 10077-1Thermal Performance of doors Calculation of thermal transmittance
- EN ISO 10077 test is for the door and frame including the threshold
- BFRC Simulator at a UKAS accredited testing laboratory
- 2023 amendment reduced U value for fire doorsets to 1.8 W/m^2K (to the external envelope)

BUILDING REGULATION COMPLIANCE

Protection from falling, collision and impact



Fire Doorsets

- This regulation relates to the impact resistance of glass. The industry standard for this in a door or screen is EN 12600 or BS6206.
- However this approved document lists no specific criteria for doorsets. Durability & impact criteria is catered for through industry standard testing: BS6375-2/3 or tests listed in the designated standard EN 14351-1:2006+A1:2016 / EN 16034:2014.

  These cover a range of criteria such as:
  - Durability of resistance to repeated opening and closing
  - Soft & heavy body impact
  - Hard body impact

  Etc

CONSTRUCTION PRODUCTS / CONTROLLED FITTINGS

Fire Doorsets

At Gateway 2 the building control application may include various aspects:

- Material change of use
- Means of escape
- All ages of HRBs including listed buildings
- Complex layouts
- Offer 30 and/ or 60 minutes to meet compartmentation as needed
- Offer fire integrity and fire insulation (protection against heat transfer) as needed

FIRE DOORSETS :

- **CONSIDER THEIR FUNCTION & LOCATION**
- **CHECK THE PERFORMANCE CRITERIA**

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BUILDING SAFETY ACT / BUILDING REGULATIONS COMPLIANCE

Fire Doorsets –What To Look For

FIRE DOOR TYPE	DESIGNATED STANDARD	DECLARATION OF PERFORMANCE
Internal Flat Entrance Doorset	NO	NO
External Flat Entrance Doorset	YES	YES
Escape Route Doorsets (not always fire rated)	YES	YES
Communal Area Doorset	NO	NO
Service Room Doorset Internal	NO	NO
Service Room Doorset External (where fire resistance required)	YES	YES

BUILDING REGULATIONS COMPLIANCE

Fire Doorsets – What To Look For

EXTERNAL DOORSETS

DECLARATION OF PERFORMANCE (Dop)

The only designated fire doorsets standard is for **external** pedestrian doorsets with fire resistance: BS EN 14351-1:2006+A2:2016 / BS EN 16034:2014

Security performance is managed through third-party certification: Dual Certification for Fire Resistance & Enhanced Security with Smoke Control – needed for Secured by Design

Timber Fire Door Manufacture Enhanced Security Door

Fire door Installation Fire door Maintenance

Secured by Design

Police Preferred Specification

Declaration of Performance Regulation (EU) 305/2011		
Manufacturer	Gerda Security Products Ltd, 54 Chiswick Avenue, Mildenhall, Suffolk, IP28 7AY. enquiries@gerdasecurity.co.uk Original issue date: 06.05.2020	
Product Type	Safer Homes Range EI30 Sa doorset	
Manufacturers Reference No.	SHR EI30 Sa	
Intended Use	Communication in domestic and commercial locations, fire compartmentation and / or escape routes	
AVCP System	AVCP 1 Approved Body, Bluesky Certification, Approved Body number 2731 , determined product type: sampling, initial inspection of the manufacturing plants, inspection of factory process control and continuous surveillance, assessment & evaluation of factory production control and issuing of the Certificate of Constancy of Performance of the product. AVCP 3 The following Approved Test Laboratories performed the determination of the product type on the basis of type testing (based on sampling carried out by the manufacturer), type calculation; tabulated values of the product under System 3 and issued test reports / calculation reports: UKAS Approved Test Laboratory: Warrington Testing & Certification 0621, for industry standards EN1026; EN1027; EN12211 and UKAS Apppproved Test Laboratory Chiltern Testing & Certification 1762 for EN ISO 10140-2; & UKAS Approved Laboratory BuildCheck 1806 for EN ISO 10077.	
Essential Characteristics	**Declared Performance**	**Designated Standard**
Thermal Transmittance	1.5W/(m2.K) - BS-EN ISO 10077-1:2006	BS EN 14351-1:2006+A2:2016
Air permeability	Class 3 - BS EN 1026	
Watertightness	Class 2A - BS EN 1027	
Resistance to wind load	Class C3 - BS EN 12211	
Dangerous substances	None	
Acoustics	30 dB	
Impact resistance of glass and fragmental material	NPD	
Load bearing capacity of safety devices	NPD	
Radiation Properties	NPD	
Resistance to fire (for fire compartmentation uses): E: / EI_2:	30 / 30	BS EN 16034:2014
Smoke conrtol	Sa	
Ability to release	NPD	
Self-closing	C	
Durability of ability to release	NPD	
Durability of self-closing: * Against degradation (cycle testing): * Against ageing (corrosion):	NPD Achieved	
This declaration of performance is issued, in accordance with Regulation (EU) No. 305/2011, under the sole responsibility of the manufacturer, identified above.		
Signed for and on behalf of the manufacturer by:		
Name and title:	Piotr Zarnoch (Technical Manager)	At: Mildenhall, Suffolk
Signature:	P Żarnoch	Date of issue: 05.07.2023

GERDA SECURITY PRODUCTS LIMITED

BUILDING REGULATIONS COMPLIANCE

Fire Doorsets –What To Look For

INTERNAL
FIRE DOORSETS

Performance	Test Standard	Regulation
Fire Resistance Testing	BS EN 1634-1 tests Field of Application Report / EXAPs	Approved Document B
Smoke Leakage Testing	BS EN 1634-1 tests Field of Application Report / EXAPs	Approved Document B
Security Testing	PAS 24 or equivalent tests, Security Scope & Dual Certification through Certification Body	Approved Document Q
Acoustics Testing	BS EN ISO 14010-2 through UKAS test house	Approved Document E
Thermal Transmittance (calculative or hotbox)	EN ISO 10077 through UKAS test house	Approved Document L
Operation & Durability	BS EN 12046-2; BS EN 947; BS EN 948; BS EN 949; BS EN 950; BS EN 1191; BS 6375-3	BS EN 14351-1 (Construction Products Regulation) BS 6375-2/3
Access & Use of Building	Tailored sizes / options for restricted widths	Approved Document M
Protection from Falling, Collision & Impact	BS EN 12600 / BS 6206	Approved Document K
Third Party Certification	Through independent UKAS accredited certification bodies	

Timber Fire Door Manufacture Enhanced Security Door

Fire door Installation Fire door Maintenance

Secured by Design

Police Preferred Specification

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BUILDING REGULATIONS COMPLIANCE

Fire Doorsets – Making An Informed Choice

Manufacturer vs System House Test Evidence

Manufacturer-Owned Primary Test Evidence	System House Test Evidence
Full design ownership & full control of test evidence	System House own primary test evidence which is then 'cascaded' to a door producer under certification
At Point of Design all performance criteria is included for a range	At Point of Design not all performance criteria may be included for a range
Each doorset range is extensively tested on the same doorset design composition & construction	For some cascaded test evidence under certification, the hardware & glazing options may not be tested on the same doorset design composition & construction
From a Single Source	Product may be from a single source or several sources
Flexibility to add to test evidence & meet the needs of the Client	The Door Producer is reliant on the System House for any changes they may need
Replacement parts in kit form – with the intumescent & fixings as tested	Replacement parts sourced from component manufacturers but not necessarily as kits with intumescents & fixings
Traceability back to the one source	

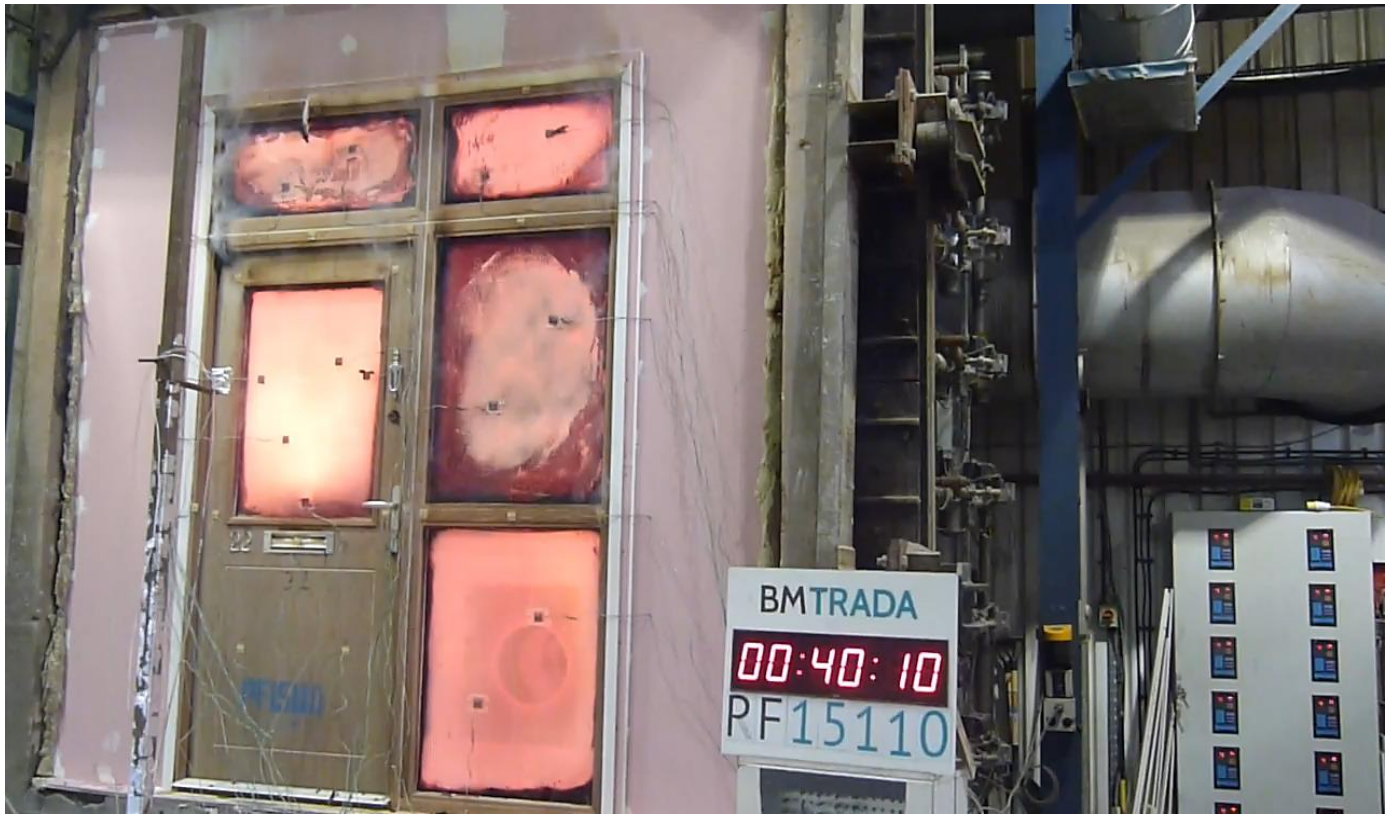
BUILDING REGULATIONS COMPLIANCE

Fire Doorsets – Making An Informed Choice

FUTURE PROOFING

TESTING TO BOTH SIDES OF THE DOORSET & CONFIGURATION

TESTING TO EN1634-1 AT A UKAS TEST HOUSE & CLASSIFIED IN ACCORDANCE WITH BS EN 13501-2



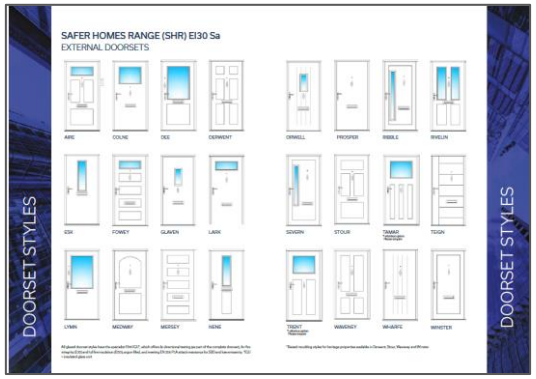
BS EN 1634 -1 30 minutes fire resistance test

BUILDING REGULATIONS COMPLIANCE

Fire Doorsets – Making An Informed Choice

ASSISTING WITH REGULATION 38

Overview of test data – for all aspects of performance criteria

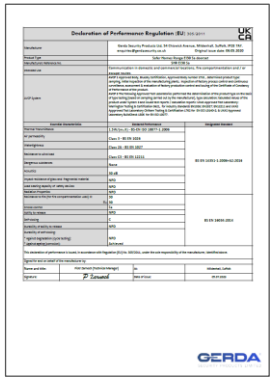


Doorset styles in range

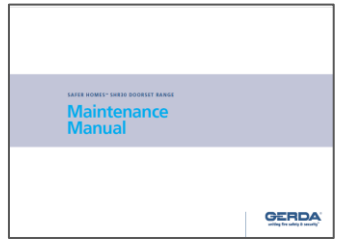
Installation Instructions

Doorset Certificate Of Conformity

Dual Certification Certificate



Declaration of Performance UKCA



Maintenance Instructions – URL to website

BUILDING REGULATIONS COMPLIANCE

Fire Doorsets – Making An Informed Choice

DEPTH OF PERFORMANCE CRITERIA

PROVIDE ASSURANCE OF CONSISTENT PERFORMANCE THROUGH **PRIMARY TESTS BASED ON THE SAME DESIGN AND CONSTRUCTION FOR A GIVEN DOORSET RANGE**

GERDA®
uniting fire safety & security™

BUILDING REGULATIONS COMPLIANCE

Fire Doorsets – Making An Informed Choice

DEPTH OF PERFORMANCE CRITERIA

ENABLES COMPATIBILITY FOR HERITAGE BUILDINGS IN THE HOUSING STOCK

Before After

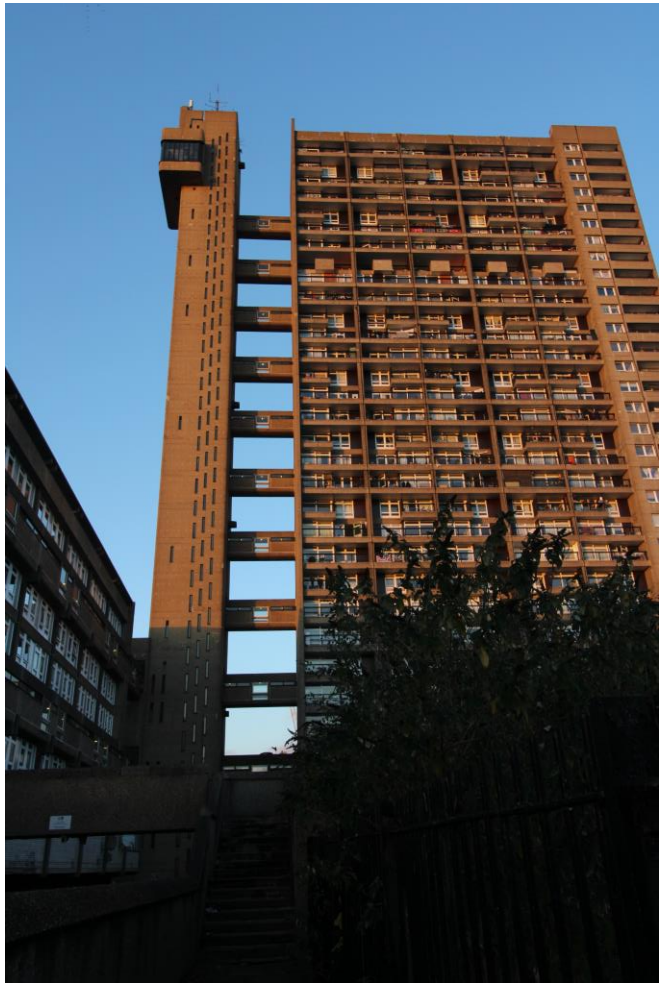
ORIGINAL VENTS
As vents above the door frames had been filled in over time, we had to carefully remove them and fireproof behind, then shot blast, repaint and reinstate, or replicate if missing, to preserve the original design.

APPROVED FIXINGS
Through working with the RBKC and TA, a specific design of required external closer, along with compliant ironmongery colour matched to the original fixings, was given listed building consent.

DOOR NUMERALS
The existing door numerals were individually recreated using 3D printing to ensure an as close to original feature preservation, with a specialist jig ensuring exact placement on the letterboxes as per original doors.

COLOUR MATCHING
With the help of an architect who worked alongside Goldfinger, we determined and colour matched our doors to the original pebble grey.

ORIGINAL TILES
Original tiles around the doors that were irreplaceable meant extreme care had to be taken by the installers not to damage them.



Heritage Project – Trellick Tower

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BUILDING REGULATIONS COMPLIANCE

Fire Doorsets – Making An Informed Choice

BREADTH OF PERFORMANCE CRITERIA

WIDE RANGE OF TESTED CONFIGURATIONS ASSISTS IN REDUCING FIRE STOPPING & COST REDUCTION

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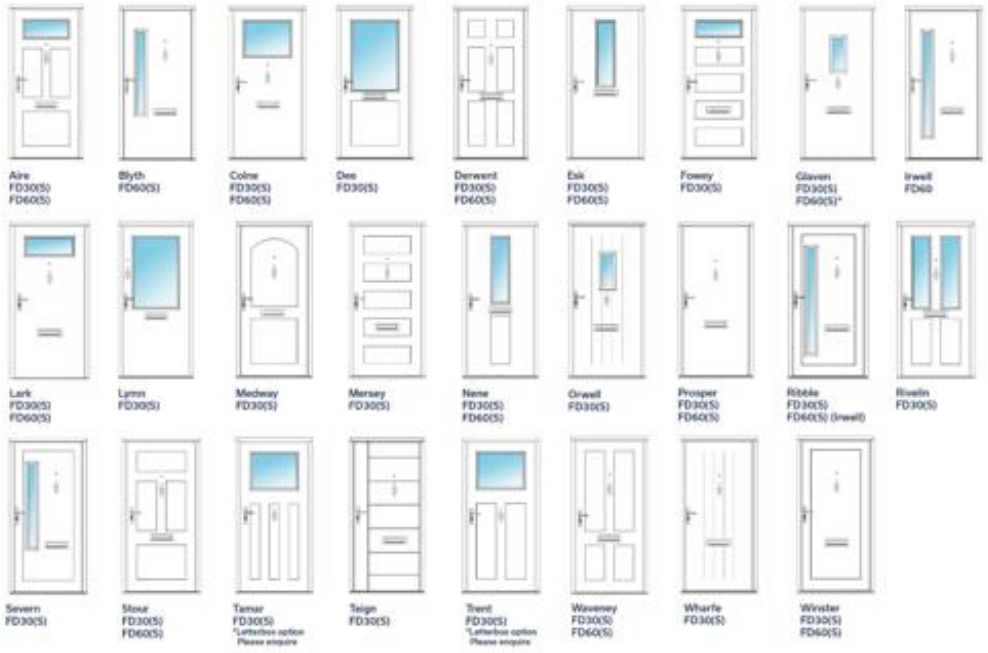
BUILDING REGULATIONS COMPLIANCE

Fire Doorsets – Making An Informed Choice

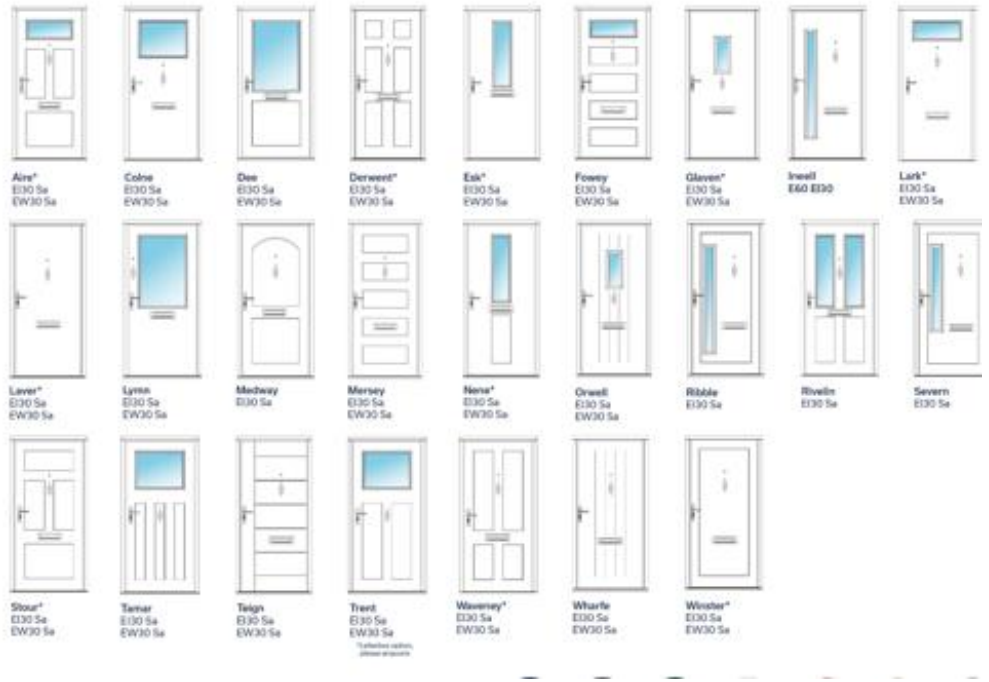
BREADTH OF PERFORMANCE CRITERIA

WIDE RANGE OF TESTED STYLES MEANS CHOICE NOT LIMITED

Internal Flat Entrance: FD30(S) & FD60(S)



External Flat Entrance: EW30 Sa, EI30 Sa & E60 EI30 Sa



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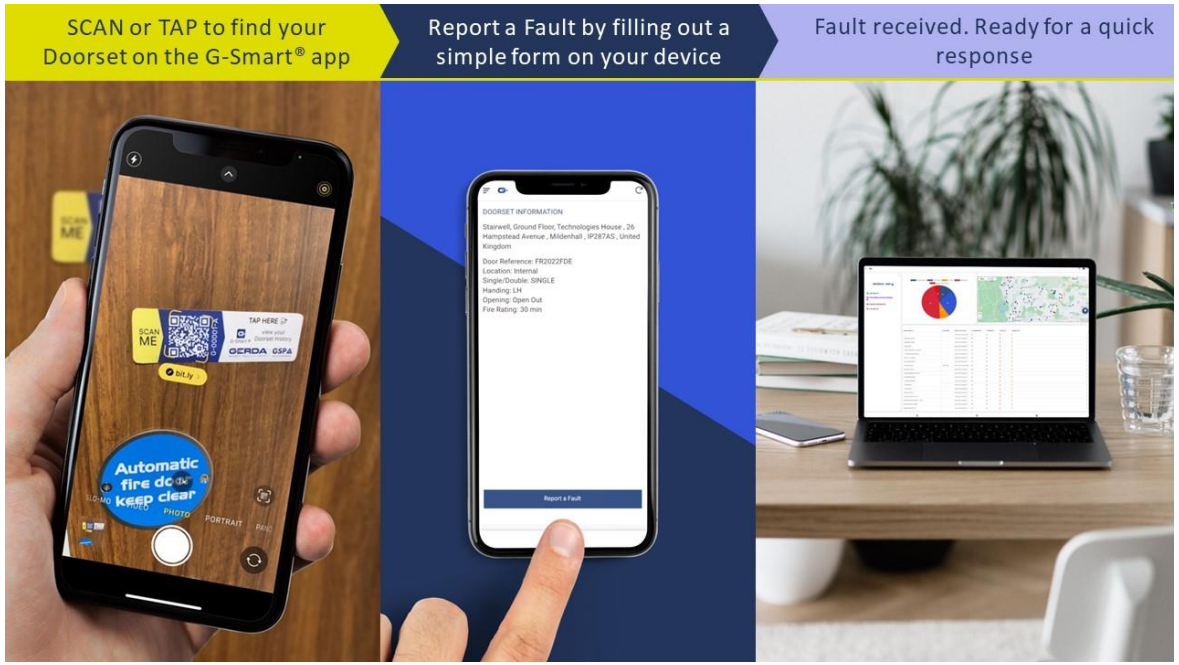
BUILDING REGULATIONS COMPLIANCE

Fire Doorsets – Making An Informed Choice

THE GOLDEN THREAD

Fire Doorset with unique code traceable at point of survey; through manufacture; installation & maintenance



Enabling residents to report a fault

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FIRE DOORSETS IN HRBS – LEGISLATION, GATEWAY 2 COMPLIANCE

Key Takeaways

- Evolving awareness of importance of fire doorsets through several pieces of recent legislation
- Gateway 2 under the Building Safety Act further reinforces the need for building regulation compliance linked to building works through the building control application process
- Fire Doorsets are a multiperformance product – to be considered in terms of function and location
- There are ways to optimise Fire Doorset specification through looking not only at the performance, but at the depth, breadth and consistency of testing
- The above is important when it comes to building control application and the progress throughout the construction project at Gateway 2
- Ensure that the fire doorset you specify for the HRB has the provenance to provide details to support you at Gateway 2 and beyond.

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GSPA®
Part of The GSP GROUP

www.gerdasecurity.co.uk
enquiries@gerdasecurity.co.uk
Freephone: 0800 389 1521

Thank you

Company certifications

Product third party certifications Emergency Access Systems

KM 524077
KM 524079
KM 524081

Product third party certifications fire doorsets

Declaration of Performance

Trade membership