



Fire-Resistant Glass Range

- Pilkington **Pyrostop**[®]
- Pilkington **Pyrodur**[®]
- Pilkington **Pyrodur**[®] Plus
- Pilkington **Pyroclear**[®]
- Pilkington **Pyroshield**[™] 2

NewGlassTechnology

Where progress never stops

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The UK's most versatile and reliable suite of fire-resistant glass solutions. Tried, tested, trusted.

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- Pilkington **Pyrodur**®
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Application

- Doors and door sets, with side and over glazed panels, internal and external
- Glazed partitions and screen assemblies
- Units with integral blinds available
- Stairwells, lobbies and escape routes
- Protected fire fighter shafts
- Overhead glazing and façades
- Load-bearing glass floors (for safety, must be insulation rated)
- A wide range of practical framing options, glazing configurations and glass sizes. Available in a comprehensive size range and can be used in various combinations with other glass types in Insulating Glass Units (IGUs)

Key Guidance

- Test evidence must be available, appropriate to the application
- Customers, installers and users should make sure that the test evidence is available and applicable
- The glazed system must be installed according to the evidence
- Edge protection tape must not be removed
- Please observe guidelines on product handling and storage

Taking Responsibility

The Regulatory Reform (Fire Safety) Order 2005 emphasizes responsibility in law for the provision of fire safety measures in buildings, starting with those in control of the premises. That includes suppliers and installers, who have a duty of care to ensure that the product is fit for purpose and appropriate.

Benefits

- Comprehensive range of approvals for a wide range of applications
- Reliable and robust proprietary technologies backed by the renowned Pilkington brand
- Consistent and reproducible fire resistance performance, tested internally to our quality requirements
- Personal guidance on the key elements governing applications: regulations, legislation, fire safety principles, custom and design practice
- Fire test summaries provide ready reference support documentation
- All products in the range CE Marked and have their own DoP (Declaration of Performance)
- Certifire certification available, reference: CF5140, CF328, CF718
- Detailed guidance on glazing, handling, quality and product performance data, readily available as downloads

Specify our on-line specification tool – to help find the right glazing solution.
www.pilkington.co.uk/specifire

To find out more,
visit www.pilkington.co.uk/fire
email pilkington@respond.uk.com
or call our customer contact centre on 01744 692000.



Insulation

Pilkington **Pyrostop**[®]

- Highly successful intumescent technology
- Forms opaque and robust insulating barrier against heat, flames and fumes
- A sodium silicate interlayer (therefore not liable to flame or smoke on non-fire side)
- Classes 30, 60, 90, 120 and 180 minutes insulation & integrity (EI)⁽²⁾
- Impact safety up to class 1(B)1⁽¹⁾
- Extensively specified worldwide in timber and metal framing systems
- Good visual and optical quality

Integrity

Pilkington **Pyrodur**[®]

- Based on intumescent technology
- Class 30 and 60 mins integrity (E)⁽²⁾
- Protection from radiant heat (EW30) and added insurance of insulation for 15 minutes (EI)⁽²⁾
- Impact safety class up to 1(B)1⁽¹⁾

Pilkington **Pyrodur**[®] Plus

- A unique and special intumescent technology
- Only 7 mm thick, integrity 30 minutes (E)⁽²⁾
- Protection from radiant heat (EW30) and added insurance of insulation for 15 minutes (EI)⁽²⁾
- Ideal for internal applications in partitions, doors and door set glazed screens
- 2(B)2 impact safety class⁽¹⁾
- Insulating Glazing Units also available

Pilkington **Pyroshield**[™] 2

- Traditional Georgian wired glass
- Safety, 30 and 60 minutes integrity (E)⁽²⁾, impact safety class 3(B)3⁽¹⁾
- Texture version – integrity 30 minutes (E)⁽²⁾
- Extensively used by the trade over decades
- NEW test evidence for 60 minutes integrity (E)⁽²⁾

Pilkington **Pyroclear**[®]

- A unique, NEW, special modified toughened glass, 30 and 60 minutes integrity (E)⁽²⁾
- Designed for consistency: proprietary NSG processing technology, a special toughening specification and specific control criteria
- Product design and use backed by a new validated computer model
- Achieved 50 successive tests in timber frames before launch
- Less sensitive to edge cover relative to standard modified toughened glasses
- Impact safety 1(C)1, i.e. at highest drop height in the impact test⁽¹⁾
- Large sizes and flexible use in timber, metal and composite doors and screens
- Ideal for safe escape before fire conditions become untenable



Fire resistance

Integrity

A physical barrier against flames, smoke and fumes.

Insulation

A heat and physical barrier against fire, based on measured surface temperature limits under test in standard conditions. For protection against all heat, i.e. by conduction, radiation and convection.

Protection from noise

Pilkington **Pyrostop**[®] and Pilkington **Pyrodur**[®] provide good acoustic performance, which can be further enhanced in Insulating Glass Units and by combination with acoustic laminated glass. Acoustic design is now important for many situations, e.g. in schools, hospitals and offices. Options from R_w34 to R_w48 dB available.

Notes:

(1) BS EN 12600, Impact test and classification. Class C indicates mode of breakage as toughened safety glass.

Class B indicates mode of breakage as toughened laminated glass.

(2) BS EN 13501-2, Classification from fire resistance tests. I = Insulation; E = Integrity; W = radiation (not in UK regulations).

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This publication provides only a general description of the products. Further, more detailed, information may be obtained from your local supplier of Pilkington products. It is the responsibility of the user to ensure that the use of these products is appropriate for any particular application and that such use complies with all relevant legislation, standards, codes of practice and other requirements. To the fullest extent permitted by applicable laws, Nippon Sheet Glass Co. Ltd. and its subsidiary companies disclaim all liability for any error in or omission from this publication and for all consequences of relying on it.

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CE marking confirms that a product complies with its relevant harmonised European Norm. The Declaration of Performance for each product, including declared values, can be found at www.pilkington.com/CE

NSG
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