



**diamond glass**

Le Brocquy Avenue, Park West Industrial Park, Dublin 12, Ireland  
tel: ++ 353 1 620 5000 | fax: ++ 353 1 620 5005  
www.diamondglass.ie

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, code 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.

**Please note that imagery throughout is for illustration purposes only.**



CE marking confirms that a product complies with its relevant harmonised European Norm. The CE marking label for each product, including declared values, can be found at [www.pilkington.com/CE](http://www.pilkington.com/CE)



**PILKINGTON**  
NSG Group Flat Glass Business

**Pilkington United Kingdom Ltd**  
Prescot Road, St Helens, WA10 3TT United Kingdom  
Telephone 01744 692000 Fax 01744 692880  
[pilkington@respond.uk.com](mailto:pilkington@respond.uk.com)  
[www.pilkington.co.uk](http://www.pilkington.co.uk)

July 2012

When fire breaks out,  
you need a glass  
that keeps its cool.



Fire-Resistant Glass Range



**diamond glass**



**PILKINGTON**  
NSG Group Flat Glass Business



## Partners in Excellence

Fire is unpredictable, its effects potentially catastrophic. People's lives are at stake, buildings and assets could be destroyed, jobs and core community services are at risk. Fire safety must not be left to chance. Which is why you need a partner you can rely on to provide dependable fire-resistant glass solutions.

**Diamond Glass** has been chosen by Pilkington to be one of its exclusive key partners in fire-resistant glazing. We were selected because our commitment to local service and support, matches their commitment to delivering the highest quality and most reliable range of fire-resistant products.

### Tried, Tested, Trusted

Pilkington has been at the forefront of innovation in fire-resistant glass since introducing the first wired glass. Pilkington continues to lead fire-resistant glass application based on its proprietary intumescent interlayer fire-resistant glass technology. The hallmark of the Pilkington range is reliability, consistency and dependability in fire conditions.

### The Pilkington Range

Applications include:

- Internal and external doors
- Partitions and screens
- Horizontal and overhead glazed elements
- Façades
- Fire escapes
- Stairwells
- Lobbies and protected firefighter shafts

A wide range of practical options are available in a variety of framing systems, glazing configurations and glass sizes from small to large.

All fire-resistant glazed systems require appropriate test evidence.



### Taking Responsibility

The legislation governing fire safety in buildings is the Regulatory Reform Fire Safety Order 2005 (FSO). The FSO introduces key principles of personal responsibility and risk assessment in making sure that adequate fire safety measures are provided for safe escape. All those involved in the provision of fire safety also have a responsibility to ensure fitness for purpose.

Working with Diamond Glass and Pilkington can help you meet the relevant requirements. Further guidance and advice is readily available on request.

### Making the Right Choice

Recommendations of how to comply with the minimum requirements of Building Regulations 2000 for life safety are provided by Approved Document B 2006. Separate regulations apply to schools and health establishments. Other building types, such as commercial and retail developments, may also need additional fire protection provisions, and insurers may have their own requirements for asset and property protection.

Fire-resistant glass must be installed in an approved fire-resistant framed system, based on test evidence.

**Please contact your local Diamond Glass representative, or call the Pilkington contact centre on 01744 692000**

### Insulation and Integrity

#### Pilkington Pyrostop®

- Multi-laminated glass, based on a proprietary intumescent interlayer
- Turns opaque in case of fire to form a robust heat and fire barrier
- Classified for 30, 60, 90, 120, and even 180 minutes insulation & integrity
- Forms an opaque physical and heat barrier against fire
- Up to class 1(B)1 impact performance (ref BS EN 12600)
- Wide scope of application

### Integrity

#### Pilkington Pyrodur® Plus

- Clear, single-laminated glass 7 mm thick
- Specially developed unique interlayer formula for enhanced performance
- 30 minutes integrity class
- Additional benefit is full fire heat insulation for 15 minutes (EN class EI 15)
- 2(B)2 impact class BS EN 12600, reference TNO report DMP-RPT-04-01887
- Class B according to former British Standard, BS 6206

• Ideal for internal applications, such as doors and screens

#### Pilkington Pyrodur®

- Forms opaque barrier in case of fire
- Clear, laminated intumescent fire-resistant glass
- 30 and 60 minutes integrity class
- Up to class 1(B)1 impact class BS EN 12600
- Also full insulation for 15 minutes (EN class EI 15) in standard tests
- Nominal thicknesses 10 mm and 13 mm in monolithic form
- Internal or external applications

### Added Benefit

#### Acoustic insulation

- Pilkington **Pyrostop®** and Pilkington **Pyrodur®** also provide good acoustic performance
- Enhanced levels of acoustic performance can also be provided by combination with special acoustic products to give enhanced levels of protection against unwanted sound. Applications and specification advice available on request

#### Pilkington Pyroshield™ 2

- Traditional wired glass, with wire mesh in the body of the glass
- Pilkington **Pyroshield™ 2** Safety Clear, 30 and 60 minutes integrity
- Impact class 3(B)3 BS EN 12600, reference TNO report DMP-RPT-03-0055
- Pilkington **Pyroshield™ 2** Texture, 30 minutes integrity
- Internal or external applications

Fire resistance (reference Approved Document B)  
 Integrity – a physical barrier against flames, smoke and fumes.  
 Insulation – a physical and heat barrier against fire, based on prescribed measured temperature criteria in a furnace test under standard conditions. For protection against all heat transfer from a fire into the protected area, that is by conduction, radiation, convection.

### Further Options

- Combination with other Pilkington products in the product range for extra functions. For example, energy management (low-emissivity, solar control, solar gain), safety and security, decorative effects (such as sand blasting)
- Available in single and double glazed options, if required with integral blinds within fire-rated units

